

BOSTON
STATE
COLLEGE



1972-1973 CATALOG



BOSTON STATE COLLEGE

Catalog *1972 - 1973*

625 HUNTINGTON AVENUE
BOSTON, MASSACHUSETTS 02115

Member of

The New England Association of
Colleges and Secondary Schools



The Boston State College Calendar, 1972-1973

1972

SEPTEMBER

Sun.	Mon.	Tues.	Wed.	Thurs.	Fri.	Sat.
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1973

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
-Registration Periods

 -Holidays

 -Examination Periods

 -Classes begin

 -Vacations

 -Reading Periods

Calendar

FIRST (FALL) SEMESTER

September 8-14, 1972	Registration Period
September 19	Classes Begin
October 9	Columbus Day, Holiday
October 23	Veterans Day, Holiday
November 7	Mid-Term
November 23-24	Thanksgiving Recess
December 16-January 1, 1973	Christmas Recess
January 8	Last Day of Classes
January 9-10	Reading Period
January 11-19	Examination Period

SECOND (SPRING) SEMESTER

January 29-February 2, 1973	Registration Period
February 6	Classes Begin
February 19	Washington's Birthday, Holiday
March 23	Mid-Term
March 31-April 8	Spring Recess
April 16	Patriots Day, Holiday
April 20	Good Friday, Holiday
May 16	Last Day of Classes
May 17-20	Reading Period
May 21-30	Examination Period
May 28	Memorial Day, Holiday
June 12	Commencement

ELEMENTARY AND SECONDARY EDUCATION STUDENT TEACHING DATES

September 18-November 10	First Quarter
November 13-January 17	Second Quarter
January 22-March 23	Third Quarter
March 26-May 25	Fourth Quarter



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Board of Trustees

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General Information

In September, 1972, Boston State College will begin its 121st year of education for service. Under the direction of the Board of Trustees of the Massachusetts State Colleges, the college operates as a commuter institution, offering programs in the liberal arts and in teacher education.

A HISTORY OF THE COLLEGE

In 1851, Nathan Bishop, first superintendent of Boston schools, recommended the establishment of a normal school. A year later the Boston City Council passed an act establishing the Boston Normal School as a pretext to obtain some education for young women beyond training in grammar grades. At that time there was only one other city normal school and only seven other public institutions of that nature in the United States, three of which were in Massachusetts.

In the same year (1852), 86 girls stepped out of their grammar school classes to embark on a "glorious new profession of teaching" in the Adams School House on Mason Street.

Two years later there was a strong demand for a public high school for girls, and, although the request was refused in that form, a number of high school studies were added to the Normal School work, and the course was lengthened from two to three years. The title of the Girls' High and Normal School was then adopted.

Near the close of the Civil War the work had grown to such an extent that a training department was organized in 1864 for practice teaching and for the observation of school work. Some six years later the number of students had increased to such a degree—about 350 were enrolled—that it was deemed advisable to move to the new building which had been built on West Newton Street.

Existence of the Normal School as a separate institution dated from 1872 when the School Committee decided the Normal and high school should thereafter be kept apart, thus returning the "normal school to its original condition as a separate school."

About this time a fourth year of work was added to the course of study in the Girls' High School. It was required that each applicant for admission to the Normal School should complete the four years of high school preparation before being accepted. By this means the Boston Normal School was given the distinction of being the first normal school in the country to demand four years of high school work as an admission requirement.

The first president was Loring Lothrop. Twenty years later Dr. Larkin Dunton was named as first headmaster of the Normal School in its independent existence. Upon his death in 1899, after 27 years of leadership, he was succeeded by Wallace C. Boyden who had acted as assistant to Dr. Dunton for many years.

In 1888 the Normal School course was extended from its original length of one year to 1½ years, and in 1899 kindergarten training was added as a supplementary course. Kindergarten training was in its infancy then, and the Boston Normal School was the first public institution to give training in that line.

In 1892 the time required for matriculation was increased to two full years, and in 1913 it was lengthened to three years with greater attention given to kindergarten work. During the same year the University Extension Commission, after careful inspection, certified credit toward the degree of Associate in Arts in seven courses out of the 17 offered.

In 1922, with the addition of two four-year courses, an opportunity was given to students to qualify for the degrees of Bachelor of Education and Bachelor of Science in Education.

Then in 1924 the school's name was changed to the Teachers' College of the City of Boston. In 1926 the college was granted the right to award a Master of Education degree.

The depression of the 1930s saw a clamor to abolish the school. This was defeated. In 1942 the college was accredited by the American Association of Colleges for Teacher Education after a twenty-year wait, under the leadership of Dr. William H. J. Kennedy, president of the college from 1929 to 1948.

In 1948 men were admitted to the four-year course in Elementary Education following a 41-year wait, since men had been admitted to the Normal School in 1904. It was also during this year (1948) that Dr. William F. Looney took over the helm as the college's fifth president.

Probably the most significant event in the history of the college occurred in 1952 when, by a joint act of the Boston School Committee

and the Massachusetts General Court, the Teachers' College became a state college under the Massachusetts Department of Education. It was now called the State Teachers College at Boston. As a state institution it started a period of steady growth and expanded offerings.

In 1960 the Massachusetts legislature passed an act eliminating the word "teachers" from the name of the state supported college. The State Teachers College at Boston thus became State College at Boston with the power to grant Bachelor of Arts and Bachelor of Science degrees in non-education courses.

Expansion of the college has been rapid during the past 65 years. In 1907 the school moved to its present Huntington Avenue campus. In 1964 the Kennedy Building was opened providing classrooms, modern laboratories, lecture halls, a cafeteria and student lounge, and offices of the deans and Student Government Association.

Three years later the college added to its ever-growing complex a new building with gymnasium and classroom facilities.

In September 1970 the college expanded its physical plant by opening the Fenway Building located a short distance from the main campus on Ipswich Street.

In the fall of 1965 the Evening Undergraduate College opened.

Dr. John J. O'Neill succeeded Dr. Looney as the college's sixth president on September 1, 1968, the same year the college came to be known as Boston State College.

After the resignation of Dr. O'Neill in 1970, Dr. Robert J. Bond and later Dr. Robert V. McCarthy served as Acting Presidents. In May 1971 Mr. Kermit C. Morrissey was elected President.

PURPOSE

The motto of the college is "Education for Service." In both its liberal arts and teacher training programs the college aims at the fullest possible development of the individual through general education, professional training and specialization and participation in college activities. The graduate should be prepared for full and effective participation in the life of the community, state, and nation. To fulfill this purpose the college aims to provide educational opportunities for as many qualified students as its facilities and resources will allow.

ACCREDITATION AND AFFILIATION

Boston State College is accredited by the New England Association of Colleges and Secondary Schools.

The New England Association of Colleges and Secondary Schools accredits schools and colleges in the six New England states. Membership in one of the six regional accrediting associations in the United States indicates that the school or college has been carefully evaluated and found to meet standards agreed upon by qualified educators. Colleges support the efforts of public school and community officials to have their secondary schools meet the standards of membership.

It also holds institutional membership in the following organizations:

- American Association of Colleges for Teacher Education
- Eastern States Association of Professional Schools for Education
- New England Teacher Preparation Association
- Association of State Colleges and Universities
- American Association of Colleges

MASSACHUSETTS STATE COLLEGES' POLICY ON NON-DISCRIMINATION

It is the stated policy of the Board of Trustees of the Massachusetts State Colleges that in matters of college admissions, the employment of professional and non-professional personnel, and all other personnel matters in the State Colleges, individuals will be evaluated on their merits without respect to their race, color, creed, national origin, age, or sex, as prescribed in applicable federal and state law.

ADMISSION

How and when to make application:

Applications for admission to all Undergraduate programs may be obtained by writing to the Admissions office.

Admissions for Graduate Study Programs are handled by the office of Dean of Graduate Studies. Both offices are located in the Administration Building. Applications will be available after October 1, 1972.

THE ADMISSION REQUIREMENTS

Boston State College offers programs only to full-time students enrolled in degree granting programs.

1. Freshman Candidates

Candidates for admission to the Freshman Class must furnish evidence of completion or anticipated completion of a level of education equivalent to four years of high school. All freshmen must furnish the following documents:

- a. A completed application with an application fee of \$10.00.
- b. A transcript of high school work including three complete years and at least the first marking period of the senior year or a copy of an equivalency certificate.
- c. A completed Student Descriptive Questionnaire.
- d. The results of the Scholastic Aptitude Test.
- e. The results of *three* achievement tests. All applicants must take the English Composition test. Other than the English requirement, candidates must submit the scores of any other two achievement tests. Those candidates intending to study a foreign language must take one of the additional achievement tests in the foreign language most recently studied.

ALL APPLICANTS FOR THE FRESHMAN CLASS MUST SUBMIT THEIR APPLICATIONS BY MARCH 1.

2. Transfer Candidates

Candidates for admission to Boston State College with advanced standing must submit the following documents:

- a. A completed application with an application fee of \$10.00.
- b. Transcripts from all institutions of higher education attended.
- c. A letter of recommendation from the appropriate administrative official at the most recent college attended.

ALL APPLICANTS SEEKING ADMISSION TO BOSTON STATE COLLEGE AS TRANSFER STUDENTS MUST FILE APPLICATIONS BY APRIL 1.

Transfer credit is awarded only for grades of C or better obtained in courses pertinent to the programs offered at Boston State College. Credit will be awarded only from colleges which are accredited by a regional accrediting association or from colleges which are recognized as candidates for accreditation by a regional accrediting association. All transfer students must complete at least one year of full-time study at Boston State College.

READMISSION

1. A request for readmission shall be made in writing to the Director of Admissions.
2. Closing dates for applying for readmission are as follows:
For the Spring Semester—October 31
For the Fall Semester—April 30
3. The Committee on Readmission shall make the final decision on those candidates who are to be readmitted.

Applications for Boston State College are accepted and evaluated without regard to the applicant's age, sex, race, color, creed, or country of national origin.

COURSE CREDIT THROUGH EXAMINATIONS

Advanced Placement

The committee on Admissions will consider on an individual basis the status of applicants submitting scores for the Advanced Placement Tests of the College Entrance Examination Board.

College Level Examination Program (CLEP)

I. General Policy

A student enrolled in a Boston State College degree program may be awarded a maximum of 60 semester hours of credit on the basis of College Level Examination Program (CLEP) test scores. No credit may be gained for passing a CLEP examination in cases where the student has already earned credit through examination or course completion for the same subject area covered by the examination.

II. General Examinations

Credit based on the CLEP General Examinations will be granted to individuals who have attained a score at least equivalent to the 50th percentile of national norms established on college sophomores and published by the College Entrance Examination Board:

General Examination	Boston State College General Education Requirement Satisfied	Semester Hours
English Composition	E101	3
Humanities	Group III Humanities	3
	Free Elective	3
Mathematics	Group III Nat. Sci./Math.	3
	Group II Nat. Sci./Math.	3
Natural Science	Group II Nat. Sci./Math.	6
Social Sciences/Hist.	Group III Social Science	3
	Free Elective	3

III. Subject Examinations

Credit based on the CLEP Subject Examinations listed below will be granted to individuals who earn scores at or above the mean score earned by regularly enrolled college students who participated in the national norms sample and received a grade of C in their college course in the subject concerned. The list below gives the minimum required score necessary for the awarding of credit. It also gives the semester hours of credit that may be earned and the Boston State College equivalencies. The list will be expanded as departments approve additional Subject Examinations.

Examination	Minimum Score for Awarding Credit	B.S.C. Equivalencies	Semester Hours
American Government	47	GV101	3
*American History	50	H201-202	6
Biology	49	BI201-202	6
College Algebra-Trigonometry	49	M103	3
Educational Psychology	47	PY310	3
English Composition	48	E101	3
General Psychology	47	PY101	3
Geology	49	G101-102	8
Human Growth & Development	47	PY201	3
Introduction to Business Management	47	EC404	3
Introductory Accounting	50	EC103-104	6
Introductory Calculus	48	M107-108	8
Introductory Economics	48	EC101-102	6
Introductory Sociology	46	SO201	3
Money and Banking	48	EC207	3
Statistics	49	PY103	3
Tests and Measurements	46	ED431	3
*Western Civilization	50	H101-102	6

*The student must also successfully complete the essay portion of the examination. It will be graded by a committee within the Boston State College History Department.

TUITION AND FEES

Tuition Deposit: Each entering student must pay a tuition deposit of \$50.00 following notification of acceptance. This deposit is non-refundable but is deducted from the first tuition payment of students who attend. A \$10.00 registration fee is required of each student attending classes in the Program of Continuing Studies.

TUITION

I. For residents of Massachusetts:

- a. One Hundred Twenty-Five Dollars (\$125.00) each semester payable at the beginning of the semester.
- b. Program of Continuing Studies—\$18.00 each semester hour.
- c. Auditor in Program of Continuing Studies—\$11.00 each semester hour.

II. For non-residents of Massachusetts:

- a. Three Hundred Dollars (\$300.00) each semester payable at the beginning of the semester.
- b. Program of Continuing Studies—\$25.00 each semester hour.
- c. Auditor in Program of Continuing Studies—\$11.00 each semester hour.

FEES

Student Activities Fee—\$12.50 each semester

Athletic Fee—\$15.00 each semester

Library Fee—\$5.00 each semester

Late Payment Fee—\$10.00

Late Registration Fee—\$10.00

Placement Fee—\$5.00 (Graduating students only)

Laboratory Fee—\$10.00 (Entering students only)

Every undergraduate student (except in the Program of Continuing Studies) is required to pay these fees. None is refundable. Every student thus becomes a member of the Student Government Association with the privileges of participation in all its activities and programs.

Tuition Refund Schedule

Within the first two weeks from the beginning of the semester—100%.

During the next four weeks—80%.

After the sixth week—No refund.

NOTE: Tuition Deposit (\$50.00) for incoming student is deducted before any tuition refund is made.

Tuition and Fees cited above are subject to change by the Board of Trustees of the Massachusetts State Colleges.



Programs in Student Financial Aid

I. PROGRAMS ADMINISTERED BY THE COLLEGE

A. General

Boston State College administers three Federal programs of student financial assistance: National Defense Student Loans, College Work Study Employment and Educational Opportunity Grants. These Federal programs are available only for those students who are United States citizens or permanent residents of the United States. The intent of these programs is to make higher education available to students whose family and personal resources are inadequate to meet their total educational costs. Many students supplement their resources by accepting a combination of funds from these programs. No student should refrain from applying for admission or continuing his studies because of financial considerations without first consulting the Office of Financial Aid.

The amount of assistance awarded to a student is based on the availability of funds and the student's ability to meet our estimated educational and personal costs of \$2,100 per year. Consideration is given to expected family contributions, students' summer earning expectations, and other resources. Preference for available funds is given to undergraduate students with the greatest financial need and who apply on time. All awards are made without regard to race, color or national origin.

B. Applying for Assistance

All applicants for financial aid are required to submit annually an aid application to the Office of Financial Aid and to file a Parents' or Student's Financial Statement with the College Scholarship Service in Princeton, New Jersey. Boston State College, Code 3086, should be designated as a recipient of your Financial Statement.

All applications for the Summer session and/or Fall and Spring semesters should be made prior to April 1. Applications for the Spring semester *only* should be submitted prior to November 15. Applications

received after these dates will be reviewed only if funds remain available after other awards have been made. Additional information regarding application procedures and eligibility requirements may be obtained from the Office of Financial Aid, Room 210, Kennedy Building, Boston State College, Boston, Massachusetts 02115.

C. National Defense Student Loans

Students who are carrying at least one-half the full-time course load may borrow from funds provided by the National Defense Education Act. An eligible undergraduate may borrow up to a maximum of \$1,000 per academic year to a total of \$5,000. Graduate students may borrow no more than \$2,500 per year to a total of \$10,000 during both their graduate and undergraduate years. Any amount borrowed depends on demonstrated financial need.

Repayment of the loan begins nine (9) months after the borrower ceases to carry at least half the normal full-time academic course load in undergraduate and/or graduate school, or ceases to be enrolled as a student, and must be completed within ten (10) years thereafter. No interest on the loan may accrue prior to the repayment period. Interest thereafter is to be paid at the rate of three (3) percent per year. Repayment may be deferred up to three (3) years while a borrower is serving in the Armed Services, VISTA, or the Peace Corps.

If a borrower becomes a full-time teacher in a public or other non-profit elementary or secondary school, or in an institution of higher education, the loan may be cancelled at the rate of 10 percent per year to a maximum of 50 percent of the total loan debt. Persons teaching in approved elementary and secondary schools located in hardship areas or as full-time teachers of the handicapped may cancel 15 percent of their total loan indebtedness per year. At the 15 percent rate it is possible for the borrower to obtain 100 percent cancellation of his total loan principal. Interest is also cancelled at the rate of 3 percent per annum.

If the borrower enters the U.S. Armed Forces after June 30, 1970, the amount of his loan may be reduced at the rate of 12½ percent of the total amount borrowed after April 13, 1970, plus interest thereon for each year of consecutive military service. Military cancellations cannot exceed 50 percent of the designated principal plus interest thereon.

D. College Work-Study Employment

Through the College Work-Study Program needy students who are enrolled on a full-time basis have an opportunity to earn part of their college expenses. Students may be given part-time employment in the College or in non-profit, off-campus organizations. On-campus jobs include work in the library, academic departments, and in the student personnel offices.

So that such employment does not interfere with a student's academic progress, work under this program is limited to fifteen (15) hours per week when classes are in session and forty (40) hours per week during vacations and holidays. In general the basic hourly rate is \$1.70-\$2.50 per hour, depending on place, length, and type of employment.

E. Educational Opportunity Grants

Authorized under the Higher Education Act of 1965, the Educational Opportunity Grants Program is available to a limited number of undergraduate students with exceptional financial need. Once awarded to a student, a grant may be renewed for the duration of his undergraduate study, if he continues to qualify for assistance. A student may not, however, receive a grant for more than eight (8) semesters.

Grants range from a minimum of \$200 to a maximum of \$1,000 per year. Grants must be matched by and can be no more than the assistance a student receives from one or more of the following sources: National Defense Loan, College Work-Study Employment, or a state or private scholarship.

F. Law Enforcement Education Program

This Federally funded program provides assistance for students who are presently employed or who plan to be employed by a publicly funded local, state, or Federal law enforcement agency after graduation.

Up to \$1,800 a year may be borrowed by Law Enforcement majors or students who earn at least 15 semester hours in subjects directly related to law enforcement. The total loan may be cancelled at the rate

of 25 percent per year for service in such an agency after graduation. Grants for tuition and fees are available for full or part-time students who are currently employed by a law enforcement agency.

II. PROGRAMS ADMINISTERED BY AGENCIES OUTSIDE THE COLLEGE

A. Massachusetts Board of Higher Education

The Board of Higher Education is authorized to grant scholarships to needy and academically worthy full-time students. Applicants must be U.S. citizens or permanent residents of the United States who are domiciled in Massachusetts. All applicants must be pursuing a program of higher education. The application deadline for incoming freshmen is December 15 and, for upperclassmen, April 1.

1. **General Scholarships**—These scholarships are awarded to cover the cost of tuition and are renewable for no more than three years, provided the student's academic standing is satisfactory. All applicants are required to file a scholarship application and either a Parents' or a Student's Financial Statement, designating the "State of Massachusetts" (Code Number 0558) as one of the agencies to receive a copy.
2. **Honor Scholarships**—The Board of Higher Education is authorized to grant four merit scholarships in each Massachusetts Senatorial District. Selection will be based on grades achieved in a competitive examination. Merit or Honor Scholarships may be applied toward tuition costs only, and are renewable for no more than three academic years, providing the recipient remains in good academic standing.
3. **Other Scholarships**—Other special scholarships awarded by the Board of Higher Education include the following: (a) Special Education Scholarships; (b) Nursing Scholarships; (c) Medical and Dental Scholarships; and (d) Scholarship for Children of Deceased Members of Fire and Police Departments.

Specific inquiries regarding the above Board of Higher Education Scholarships should be addressed to:

Board of Higher Education
Scholarship Office
182 Tremont Street
Boston, Massachusetts 02111
Telephone: 727-5367

B. Massachusetts Higher Education Loan Plan (H.E.L.P.)

The education of students from middle or upper income groups frequently places a financial burden on their families, particularly if there are a number of children who want to go to college. In many cases the student cannot qualify for student employment or a National Defense Loan. Even when commercial credit sources are available, repayment generally runs concurrently with the years the student attends college. To help these students and their families, a Guaranteed Loan Program is now authorized.

A student may borrow up to \$1,000 a year, but not in excess of \$5,000, for an undergraduate program; in addition, he may borrow \$1,500 a year for a graduate program, but not in excess of \$7,500 total for both undergraduate and graduate programs.

When a student receives a H.E.L.P. loan, he signs an original note due for payment not less than 9 months after the date of his anticipated graduation. In the event of a student withdrawing before graduation his loan then becomes due no later than 9 months from date of withdrawal. Upon maturity of the original note, the student may elect to sign a renewal note providing for repayments of his loan(s) with equal monthly payments totaling not less than \$360 per year and over a period of not less than five years, unless the required minimum payments shall result in payment of the note in a shorter period.

Students who wish to apply for H.E.L.P. loans should go directly to their local banks to obtain the necessary application forms. Inquiries regarding this program should be addressed to:

Massachusetts Higher Education Assistance Corporation
511 Statler Building
Boston, Massachusetts 02116
Telephone: 426-9434

C. Tuition Aid for Massachusetts Veterans

The Massachusetts Department of Education has been authorized to issue a Certificate of Exemption from payment of tuition to qualified veterans. This certificate entitles a veteran to free tuition during a given academic year. Certificates are issued for study at any state institution of higher education in the Commonwealth and to any veteran whose service was credited to the Commonwealth. Eligible veterans must have served more than 180 days on active duty in the U.S. Armed Forces after February 1, 1955. Certificates of exemption are renewable for no more than three years, provided the student's academic standing is satisfactory.

Eligible veterans should report with their discharge papers to the State Adjutant General's Office, Room 184, State House, to initiate the application procedure. This should be done as soon as possible.

Veterans whose certificates are not on file prior to receiving bills must pay tuition and a refund will be processed upon receipt of the certificate.

Academic Policies and Procedures

ACADEMIC ADVISEMENT

Until a student makes a firm choice of major, ordinarily toward the end of the freshman year, he will work out his course selections with a counselor in the Counseling Service (202K). Upon declaring a major, he will be assigned a faculty advisor within his major department. The Counseling Service will still be available to him as a supplementary resource to meet his advisement needs.

ATTENDANCE

The attendance of students at regularly scheduled classes is expected and the responsibility for such attendance rests with the individual student. Students at Boston State College are recognized as sufficiently mature to accept this personal responsibility and to consider and accept the consequences of failure to attend.

Since freshmen must exercise particular care in this respect, it is expected that freshmen, especially, will attend all their classes. The faculty recognizes its greater responsibility toward freshmen in the matter of class attendance.

Members of the faculty will hold students responsible for regular attendance at classes. In cases of illness, students are to explain their absences directly to their instructors. The grade of the student who has met the requirements of the instructor in making up his work shall not be reduced for absence because of illness. It is the responsibility of the student, on his return to the College after illness, to see the College Nurse and submit to her a physician's statement. In instances of prolonged illness, the student must notify the Nurse. Instructors may then verify the illness of a student by contacting the Nurse.

ACADEMIC STANDING

Grades are reported according to the following system:

4.0, 3.5, 3.0, 2.5, 2.0, 1.5, 1.0, 0.0

4.0 is the highest grade

1.0 is the lowest passing grade.

Other Grades

WP (withdrew passing), *WF* (withdrew failing)—these grades are reserved for those students who withdraw after mid-term with the written approval of the Dean of Undergraduate Studies. *WP* indicates that the student was performing at a satisfactory level at the time of withdrawal. *WF* indicates that the student was performing at an unsatisfactory level at the time of withdrawal. Neither grade is computed in the student's grade point average.

P (passing)—used in pass/fail courses only. *P* indicates satisfactory completion of a course without quality designation.

INC (incomplete)—this grade may be given only when the FINAL EXAMINATION has been missed. All other course requirements must be completed prior to the final examination.

Averages

The semester grade point average is determined by dividing the total semester hours carried for the semester into the total quality points earned for the semester. Total semester hours carried include both total semester hours earned and failed.

Quality points are found by multiplying the course grade by the semester hours. Grades of *INC* are computed as 0.0 until changed.

Cumulative grade point average is determined by dividing the total semester hours carried into the total quality points earned. Total semester hours carried include total semester hours earned and failed.

In computing both semester and cumulative grade point average, grades earned outside Boston State College will not be included.

A 2.00 cumulative average is required for graduation.

Required Grade Averages

Semester Hours*	For Good Standing	For Retention
0-18	1.50	1.00
19-35	1.50	1.30
36-50	1.65	1.50
51-64	1.75	1.60
65-78	1.85	1.70
79-93	2.00	1.85
94-107	2.00	2.00
108- --	2.00	2.00

*The higher number printed under the cumulative heading “HOURS EARNED” or “HOURS TAKEN” on your grade report is used to find your academic status in the table above.

A student whose cumulative average falls below that required for retention will be dismissed because of academic deficiency.

A student has attained the Dean’s List when his semester average is between 3.00 and 3.49, provided he has earned at least 12 semester hours and has no grade below 2.0.

A student has attained the President’s List when he meets the requirements for the Dean’s List and has a semester average of at least 3.50.

A student who has not attained the Dean’s List or the President’s List prior to the semester of student teaching is not eligible for that honor during that semester.

Failing Grades

Failing grades can never be removed. If the failed course is a required one, it must be repeated and passed. In the case of electives, any approved course may be taken to replace the one failed.

COURSE LOAD

A full-time student may carry no less than 12 nor more than 18 semester hours. The normal course load is approximately 15 semester hours. Individual variation from this load may be allowed only with the permission of the Dean of Students.

COURSE CHANGES

Any change or addition of courses may be allowed only during the first two weeks of the semester.

During the first two weeks of a semester, a student may change a course in the office of the Registrar. Between the end of the second week and the midpoint of the course, a student may withdraw only with the approval of the Dean of Students. After the midpoint of a course the student must have the permission of the Dean of Undergraduate Studies to withdraw. The Dean of Undergraduate Studies will grant such permission only under extremely extenuating circumstances.

Withdrawal from a course shall not be allowed if the semester hours carried fall below 12 semester hours.

A Day College student with unusual problems concerning course load must consult the Dean of Students. An Evening College student must consult the Dean of the Evening College.

MAKEUP OF FINAL EXAMINATIONS

Requests for permission to make up missed final examinations must be submitted in writing through the office of the Dean of Undergraduate Studies. A doctor's certificate or other evidence of the need for absence from the examination is required. Request forms may be obtained in the office of the Dean of Undergraduate Studies.

WITHDRAWAL FROM COLLEGE

Any student who chooses to withdraw from college shall consult a counselor in the offices of the Counseling Service for an exit interview.

This procedure shall be followed whether a student is withdrawing during the semester or after the completion of a semester.

An exit interview at the time of withdrawal, as well as a letter of withdrawal addressed to the Dean of Students, shall be placed in the student's folder. These documents shall be required of any candidate requesting readmission to the College.

Any student who has withdrawn shall not be considered for readmission until he has been separated from the college for a minimum of one complete semester. See page 14 .

Until a student withdraws officially, he is registered in all courses and will receive grades appropriate to his performance. Students who cease attending classes without officially withdrawing will receive a grade of 0.0.

REGISTRATION

Students who fail to register during the registration period are subject to a late registration fee.

A student must be photographed for his I.D. prior to selecting his courses. In the registration area, each student will select one course card for each course he wishes to elect.

Each course has been assigned a block number which corresponds to the day and time of the final examination. Students who select two courses with the same block number and thereby create a conflict in the final examination times of these courses will receive no credit in one of them.

TRANSCRIPTS

Official transcripts are the only type available. Upon graduation one copy will be sent to each student without charge. Additional copies may be obtained upon request at the rate of \$1.00 per copy. Ordinarily, transcript requests take up to two weeks. During registration periods no transcripts are sent.

Transcripts may be requested only in person in the office of the Registrar or through the mail and must be prepaid. No telephone requests will be honored. Although official transcripts are given to the student they must be mailed and may not be picked up in person.

TRANSFER OF CREDITS

Students regularly enrolled who wish to secure credit for courses taken in other institutions or in other divisions of Boston State College must secure permission from the Department Chairman and the Dean of Undergraduate Studies prior to enrolling for these courses. A form must be completed and submitted to the Registrar. Forms are available in both the office of the Registrar and the office of the Dean of Students.

MASSACHUSETTS TRESPASS ACT

Boston State College is governed by the Massachusetts Trespass Act, enacted June 2, 1969.

Trespassing Upon the Land of Certain Institutions.

Whoever willfully trespasses upon land or premises belonging to the commonwealth, or to any authority established by the general court for purposes incidental to higher education, appurtenant to a public institution of higher education, the state prison, state prison colony, Massachusetts reformatory, reformatory for women, state farm, Tewksbury hospital, Soldiers' Home in Holyoke, any public institution for the care of insane, feeble minded or epileptic persons, any Massachusetts training school or state charitable institution, or upon land or premises belonging to any county and appurtenant to a jail, house of correction or courthouse, or whoever, after notice from an officer of any of said institutions to leave said land, remains thereon, shall be punished by a fine of not more than \$50.00 or by imprisonment for not more than three months.

Library Facilities

The College Library consists of three areas: the Main Library which is located in a wing of the Administration Building; the Curriculum Library, located in Room 279 of the North Building; and the Fenway Library, located in the Fenway Building at Ipswich Street.

The Library collection has doubled in the past six years and will be increasing each subsequent year by at least 20,000 titles annually. The library also has many collections of microfilm, micro-fiche (including ERIC, the Educational Research Information Center Programs), as well as approximately 1,000 professional and scholarly periodicals and several thousand pamphlets, including state and federal documents. Two new acquisitions are the Urban Affairs Library on micro-fiche which is called Newsbank and contains timely articles in 15 subject areas from 150 U.S. newspapers, and Vital History Cassettes which record selected speeches made each month. Both of these are obtainable in each library, Huntington and Fenway. At the Huntington Library microfilms of the Boston *Globe* and the Boston *Herald Traveler* back to 1960 have been added to the collection. Microfilm readers and reader-printers are available for the use of the film and fiche.

The Curriculum Library, which has received outstanding recognition all over New England, has all available materials needed for use in Elementary and Secondary classrooms or sources from which materials may be obtained. Publishers' textbook series as well as individual texts, courses of studies from all over the United States and elsewhere, filmstrips, microforms, records, SRA materials, teaching machines and other forms of media are all a part of this vast learning resources area for classroom teaching or research.

The Fenway Library is the most modern, attractive and spacious of all. It is equipped with the newest of service areas, is well furnished with study carrels, lounge chairs and individual study tables. This library houses the materials for the Literature, Social Sciences and Psychology courses. The collection is growing rapidly in these areas as well as in the Reference materials needed for any course. The Fenway Library has recently obtained the Encyclopedia Britannica History of American Civilization on micro-fiche which consists of 20,000 books, many rare and unobtainable anywhere else.

Student Personnel Services

DEAN OF STUDENTS

The Dean of Students is responsible for working toward a college environment within which the student can achieve social, academic, and personal maturity. Within the administrative framework of the College, the Dean is more than anyone else the student advocate, serving to bring the student viewpoint to the administrative staff. The Dean coordinates the Student Government Association and Student Activities, maintains Counseling, Placement, Health, Reading, and Financial Aid Services, provides an orientation program for new students, is responsible for working with students toward the understanding and observation of college administrative policies, and provides for the physical comfort of students in cafeteria and lounges.

ORIENTATION

Students new to the college participate in an orientation program at the beginning of each semester. In small group meetings they have an opportunity to interact with counselors and enrolled students and become acquainted with the College—its activities, services, and programs of study. During this introduction to the Boston State community, they explore their own goals and develop a program of courses to achieve them.

COUNSELING SERVICES

A Counseling Service is provided by counselors prepared to assist students with their career planning and with personal problems. It provides students with an opportunity to work with experienced psychologists in increasing self-understanding so that they may more effectively make decisions for themselves. The Counseling Service also administers psychological tests when students request them. The Counseling Service is available to all members of the Boston State College community.

In order to provide the broadest possible range of mental health services for its students, Boston State College is affiliated with the College Mental Health Center of Boston, Inc. The Center, which serves 25 Greater Boston institutions of higher learning, offers out-patient psychiatric services on the 43rd floor of the Prudential Tower in Boston's Back Bay. In addition, the Center has recently opened a 20-bed in-patient unit located at the United States Public Health Service Hospital, 77 Warren Street, Brighton, Massachusetts. Students using the Center enjoy anonymity; visits are not recorded in the student's file. Further information about the service is available in the Counseling Office.

FOREIGN STUDENTS

Foreign students registering for the first time should report immediately to the Dean of Students in order to be assigned a counselor who will assist them with their programs. In addition, the counselor will be available to assist and advise the foreign student in his adjustment to college life in America.

In those matters pertaining to a student's official immigration status while in the United States, the counselor will refer the student to Dr. Francis P. O'Hara, Dean of Graduate Studies.

PLACEMENT OFFICE

Vocational placement assistance and career counseling are offered at the Placement Office, Room 210K. In addition to individual counseling, job market information (both full and part-time) and on-campus interview opportunities are provided. Seniors are advised to register with the Placement Office early during their final year of study and to meet with the Director of Placement prior to active candidacy. It is important to the candidates that they allow adequate time for (1) placement office registration; (2) the accumulation of placement credentials; (3) resumé preparation; and (4) planning their candidacies.

In many professional fields the competition for jobs is keen and, in a significant number of cases, the difference between receiving and not receiving consideration is a well-planned candidacy. Full and part-time job information is posted in the second floor corridor of the Kennedy Building. Additional information is available in the Placement Office. It should be noted that transcripts should be ordered directly from the office of the Registrar.

READING AND STUDY SKILLS

The Reading and Study Center serves Boston State College students in two ways. First, the Center offers individual counseling in studying and reading problems. Second, the Center offers a two semester hour course in Reading and Study Skills for the student who needs help in performing college tasks more quickly and effectively. The course, RE101, Techniques of Reading and Studying, deals with the actual practice in attacking reading and study tasks; increasing rate of comprehension; improving organizational and recall skills; note-taking from lectures and textbook materials and study technique.

HEALTH

Nurses are on duty to attend to any student who may need medical aid. The Nurses' offices are located in Room 305G in the Gym Building and the First Aid Room on the first floor of the Fenway Building.

Students who return to the college after a prolonged absence are urged to report to the college nurse in Room 305G.

Campus

Boston State College is located on Huntington Avenue between Longwood Avenue and Evans Way in Boston's educational and cultural center and on Ipswich Street near Fenway Park. In the immediate vicinity are Simmons and Emmanuel Colleges, the Harvard Medical and Dental Schools, Wentworth Institute, Northeastern University, and the Massachusetts College of Art. The Boston Museum of Fine Arts and the Isabella Stewart Gardner Museum offer unusual cultural advantages both in their collections and through their fine concerts and lectures. The Boston Public Library is located a short distance away.

ADMINISTRATION BUILDING

The Administration Building contains the offices of the President and those of other administrative departments. Part of the college library also is located here, as are the facilities of the Department of Foreign Languages.

COLLINS BUILDING

The offices and classrooms of the Departments of Mathematics and Art are located here.

FENWAY BUILDING

This facility is located on Ipswich Street, a short walk from the main campus. Departments here are Anthropology, Economics, English, History, Political Science, Psychology and Sociology. Also located here are a cafeteria, lounges and the office of the Student Government Association.

KENNEDY BUILDING

The Kennedy Building offers modern facilities for the teaching of a wide range of course offerings in Biology, Chemistry, Geography, Earth Science, and Physics. The lower floors contain a cafeteria, lounges for student and faculty, and the offices of various deans.

NORTH BUILDING

This building houses the departments of Elementary Education, Secondary Education, Philosophy and Music. The Curriculum Library is located here.

PHYSICAL EDUCATION BUILDINGS

A recently renovated gymnasium building contains physical education and locker facilities for both men and women. The Physical Education building contains offices and classrooms, a large gymnasium seating over 1000, as well as a variety of other facilities, including squash courts, dance studios, apparatus rooms, and a rifle range.

HARVARD BUILDING

The Harvard Building, located at 640 Huntington Avenue, is being redesigned as a faculty office building. It will house the offices of the Elementary and Secondary Education, Art, Music, and Philosophy Departments, and on a temporary basis, the Mathematics and Foreign Language Departments. The building will also contain a faculty dining room and the offices of the Boston State College Alumni Association.

It is expected that this building will be ready for occupancy in December 1972.

TOWER BUILDING

Construction of the Tower Building is expected to begin in August 1972. This is a twelve-story, \$15.5 million project. It is estimated that the building will be under construction for 24-36 months, with a hopeful completion date of January 1975.

The Tower Building will contain a Theater/Auditorium complex on the first floor. The second and third floors will encompass cafeteria facilities for 1800 people, and on the mezzanine the new college bookstore will be located. The Mathematics, Psychology, and Foreign Language Departments will occupy the next three floors, followed by the Audio-Visual/Television Curriculum Library Center. The balance of the building will consist of Library space for approximately 300,000 volumes.



Organizations and Activities

THE STUDENT GOVERNMENT ASSOCIATION

The Student Government Association is the legislative body for the consideration of problems and policies which affect the student body. This Association exists as the hub of all student activities. It informs the administration and makes recommendations concerning important matters in student and college life. The elected officers of the Student Government represent each student of the college and support the ideals that intensify the purposes of the college. Acting as official voice of the student body, the officers act as liaison between the student body and the administration.

Each student, on payment of the Student Activities Fee, becomes a member of the Student Government Association. Representatives and officers of the S.G.A. are elected by the undergraduate student body, and each student as a member of the association is eligible to compete in elections, provided he fulfills the necessary academic requirements.

ATHLETICS

The Athletic program is based on the premise that athletics in the total education process is of tremendous value both to the individual and to his college.

At present Boston State is a member of the National Collegiate Athletic Association, the Eastern Collegiate Athletic Conference, National Association Intercollegiate Athletics, Massachusetts Collegiate Athletic Conference, and New England College Athletic Conference. Teams are sponsored in the following sports: Football, Cross Country, Hockey, Basketball, Wrestling, Baseball, Rifle, Pistol, Gymnastics, Indoor and Outdoor Track, Lacrosse, Sailing and Golf. An active intramural program is operated throughout the school year. Intramural activities include: touch football, basketball, badminton, volleyball, boxing, golf, wrestling and table tennis. The coaching staff is composed of men nationally recognized as experts in their fields.

WOMEN'S ATHLETIC AND RECREATION ASSOCIATION

The Women's Athletic and Recreation Association is coordinated by

the members of the women's physical education department and the women students of Boston State College. The WARA Executive Committee consists of three faculty members and eight students elected by the managers of the various activities.

The athletic program has expanded since its formation in 1951 to include intercollegiate competition in basketball, softball, volleyball, tennis and gymnastics. Cheerleading is also considered a varsity sport. There are four cheerleading squads giving enthusiastic support to the men's varsity and junior varsity basketball and ice hockey teams.

The intramural and club program offers participation in such activities as Senior Life Saving and golf, badminton, slimnastics, squash, folk dancing, riflery and fencing. The dance club has also gained a great deal of interest and recognition.

The Women's Athletic and Recreation Association also sponsors various social activities throughout the year.

VOLUNTEER SERVICE

The Volunteer Service Bureau operates on the principle of service for others, aiding local agencies through recreation leadership, group work, guidance and social services. Members offer unpaid service to agencies throughout Metropolitan Boston.

PUBLICATIONS

Outlook, the college newspaper, is published throughout the school year. Staff work is open to all students interested in gaining competence in writing and experience in newspaper work.

Spectrum, the college literary magazine, is published irregularly during the year. It offers opportunity for those interested in creative writing and photography. Any member of the student body is eligible to contribute.

Lampas, the yearbook, is edited each year by members of the senior class.

DRAMATICS

Students are encouraged to participate in the various drama productions that occur each year. Last year the Drama Club presented "You Can't Take It With You"; the Shakespeare Society performed "The

Comedy of Errors”; the SGA Musical was “Canterbury Tales”. In addition the three groups jointly produced a Performing Arts Festival.

During the summer of 1970 the Shakespeare Society was invited to participate in the Ninth Annual American Festival in Britain. They performed “The Taming of the Shrew” at several theatre locations in the Lake District of Northern England. They were also afforded the distinct honor of a lengthy interview by Boarder Television in Carlisle, England.

There is also an active chapter of Alpha Psi Omega, national drama fraternity, here on the campus.

CLUBS

A number of clubs and societies are maintained by the students to provide opportunities for activities of interest. These include religious clubs, language clubs, drama clubs, political clubs, social science clubs, sports clubs, a world travel club, and science clubs among many others.

HONOR SOCIETIES

Chapters of five national honor societies are presently operating on the campus: the Mu Iota Chapter of Phi Alpha Theta, the international honor society in History; Iota Rho Chapter of Gamma Theta Upsilon, the professional Geography fraternity; a chapter of Psi Chi, the national honor society in Psychology; Sigma Pi Sigma, the international honor society in Physics; and the Beta Sigma Chi chapter of Lambda Alpha Epsilon, the Law Enforcement honor society.

Undergraduate Curricula

Boston State College offers undergraduate programs leading to the Bachelor of Arts, Bachelor of Science and Bachelor of Science in Education degrees. Candidates for these degrees shall satisfy the general education requirements of the college.

Candidates for the degrees of Bachelor of Arts and Bachelor of Science must develop major and minor concentrations. In addition, those who seek the Bachelor of Arts degree must satisfy the foreign language requirement.

The Bachelor of Science in Education degree is offered in two fields, kindergarten-primary and elementary education. Candidates for this degree shall major in one of these fields and shall complete the requirement in student teaching. These candidates may develop a minor concentration.

GENERAL EDUCATION REQUIREMENTS

Boston State College has long believed in a general education curriculum uniting the biological sciences and physical sciences, mathematics, the social sciences, and the humanities. The curriculum reflects this philosophy.

For graduation, all students should demonstrate competence in the following: English Composition, Humanities, Social Sciences, Natural Sciences, and Mathematics.

The college has made provision for students of outstanding ability to forego those courses in which they are able to display a high level of knowledge. If a student is able to demonstrate his proficiency in any Group I course by his performance in an Advanced Placement Test and/or a CLEP examination or he may select another course in the appropriate discipline with the advice and consent of the department chairman.

Required of All Students

6-8 S.H.

English Composition

E101-102

6 S.H.

Effective Speech

E103

2 S.H.

The English Composition requirement may be satisfied by the achievement of a score of 5, 4, or 3 in the Advanced Placement Test of the CEEB. If a student attains a grade of 4.0 in E101, he may begin his Literature sequence in the second semester. Students may satisfy the speech requirement by successfully passing, during the sophomore year, the non-credit proficiency examination given by the Speech Department.

HUMANITIES

This requirement is to be satisfied by completing eighteen semester hours, six of which must be met by choosing at least one two course sequence from Group I and six by choosing at least two courses from at least two of the disciplines from Group III.

Please note that E101-102 is a prerequisite for all other English courses.

Group I

Major British Writers	E201-202	6 S.H.
American Writers	E205-206	6 S.H.
Masterpieces of Western Literature	E203-204	6 S.H.
Survey of Spanish Literature	SP211-212	6 S.H.
Survey of French Literature	F211-212	6 S.H.
Survey of German Literature	G211-212	6 S.H.

Group II*

Plays of Shakespeare	E301 or E302	3 S.H.
Romantic Poetry	E303	3 S.H.
Modern Drama	E307	3 S.H.
Advanced Writing	E322	3 S.H.
Victorian Poetry	E404	3 S.H.
Modern Novel	E406	3 S.H.
Modern German Novel	LG406	3 S.H.

Group III

Basic Studies in Music	MS205	3 S.H.
Structure in the Visual Arts	A202	3 S.H.
Art Appreciation	A201	3 S.H.
Appreciation of Music	MS201	3 S.H.

Problems of Philosophy	PH101	3 S.H.
Ethics	PH301	3 S.H.
Greek Philosophy	PH201	3 S.H.
Introduction to Oriental Art	A305	3 S.H.
Existentialism	PH206	3 S.H.

*Students should consider the value of having had some training in a Group I course before electing courses from Group II.

SOCIAL SCIENCES

This requirement is to be satisfied by completing fifteen semester hours, six of which must be met by choosing one two course sequence from Group I. Of the remaining nine hours at least one course must be selected from Group II and at least one from Group III.

Group I

Western Civilization	H101-102	6 S.H.
History of Ideas	H103-104	6 S.H.
World History	H105-106	6 S.H.

Group II

*American Government	GV101	3 S.H.
Comparative Government	GV102	3 S.H.
Culture Systems	G302	3 S.H.
*American History to 1865	H201	3 S.H.
American History Since 1865	H202	3 S.H.
Urban Geography	G403	3 S.H.

Group III

Introduction to Psychology	PY101	3 S.H.
Cultural Anthropology	AN201	3 S.H.
Introduction to Sociology	SO201	3 S.H.
Principles of Economics	EC101	3 S.H.

*Massachusetts State Law requires that a student take a three semester hour course emphasizing the United States and Massachusetts Constitutions. This requirement is met by taking either H201 or GV101.

NATURAL SCIENCES AND MATHEMATICS

This requirement is to be satisfied by taking a total of five courses. At least one two course sequence must be selected from Group I and at least one course from Group III.

Group I

Principles of Chemistry	CH101-102	8 S.H.
General Chemistry	CH103-104	8 S.H.
Biology	BI201-202	6 S.H.
College Physics	P101-102	8 S.H.
General Physics	P103-104	8 S.H.
Geology	G101-102	8 S.H.

Group II

Physical Science	PS101-102	6 S.H.
Natural Science	PS103-104	6 S.H.
Environmental Biology	BI421	3 S.H.
Environmental Chemistry	CH105	3 S.H.
Oceanography I	G201	3 S.H.
Oceanography II	G202	3 S.H.
Environmental Systems	G301	3 S.H.
Weather and Climate	G406	3 S.H.
Health Science	HL102	3 S.H.
Astronomy	P306	3 S.H.
*Structure of Number Systems	M224-225	6 S.H.
*Basic Modern Mathematics	M305	3 S.H.

Group III

Fundamental Principles of Math I	M101	3 S.H.
Pre-Calculus	M103	3 S.H.
Calculus I	M107	4 S.H.
Mathematical Analysis I	M109	3 S.H.

*A student may not take both CH101-102 and CH103-104, nor M224 and M305 for credit. Elementary majors are reminded that they must take either M224 or M305.

The total program in general education is 54-59 semester hours (51-59 semester hours if the second semester of English Composition is excused). It is recommended that all students substantially complete these requirements in their first four semesters.

I. REQUIREMENTS FOR THE BACHELOR OF ARTS OR BACHELOR OF SCIENCE DEGREES

Major and Minor Concentrations

The requirement for the B.A. or B.S. major concentration shall consist of thirty to thirty-six semester hours as specified in the departmental section. The minor concentration shall consist of eighteen to twenty-one semester hours to be determined by the department offering the minor. All courses taken in a department shall count toward the major or minor concentration; however, departments may specify a core of courses required for major or minor. A minimum of 120 semester hours (exclusive of student teaching) shall be required for graduation. A given course may be used to satisfy a major or minor requirement in no more than one department.

Foreign Language Requirement

Candidates for the degree of Bachelor of Arts may satisfy the foreign language requirement by the successful completion of a course at the advanced level (131-132) or above, or by the successful completion of two years' work in one language at college level. This requirement also may be met by a superior performance on the achievement test of the CEEB.

Teacher Preparation—Secondary

Students who plan to teach in the secondary schools shall qualify for the degree of Bachelor of Arts or Bachelor of Science and shall minor in secondary education. The courses required for this minor are listed on page 119. In addition they must student teach for a period of time not to exceed eight weeks for which they will receive six semester hours. All students must register for the student teaching course during the regular registration period for that semester.

II. REQUIREMENTS FOR THE BACHELOR OF SCIENCE IN EDUCATION DEGREE

Candidates for the degree of Bachelor of Science in Education shall develop a major of 30 to 36 hours in Elementary or Kindergarten-Primary Education. The courses required for this major are listed on pages 66-70 . Elective hours may be used by a student to develop a minor in some other field. In addition to the major, candidates shall teach for one semester for which they will receive 12 semester hours. All students must register for the student teaching course during the regular registration period for that semester.

The graduation requirement for this degree shall be 126 semester hours.

A given course may be used to satisfy a major or minor requirement in no more than one department; the course may also be used to satisfy general education requirements.

MAJOR AND MINOR FIELDS

Candidates in secondary education or a non-teaching program may choose a major from the following fields:

Afro-American Studies	History
Biology	Mathematics
Chemistry	Natural Science
Earth Science	Physical Education (Men, Women)
English	Physics
French	Political Science
Geography	Psychology
German	Spanish

The following major fields are open only to those in the non-teaching preparation programs:

Economics	Metropolitan Studies
Latin American Studies	Philosophy
Law Enforcement	Sociology
Medical Technology	

A minor may be developed in any of the major fields and in any of the following:

Anthropology

Art

Dance

Music

Recreation

Secondary Education

HONORS DEGREES

Degrees will be awarded with honors, with high honors and with highest honors based on the student's cumulative academic average.

DEPARTMENTAL HONORS PROGRAM

The Honors Program is a special, optional, scholarly opportunity open to any junior or senior who has maintained a cumulative average of at least 3.00. The program requires independent research and a thesis in the student's major discipline.

One course of three semester hours (490) in the respective department or program is available during the student's final semester of on campus work. This course is considered complete only when the research document is actually completed and has been accepted by the Honors faculty advisor. Further departmental requirements may be obtained from the following faculty advisors:

Art

Biology

Chemistry

Earth Science

Economics

English

French

Geography

History

Mathematics

Metropolitan Studies

Music

Philosophy

Physical Education for Women

Physics

Political Science

Psychology

Mr. Joseph Fiorello

Mrs. Pauline Parsons

Mr. Henry Mariani

Dr. Robert W. Spayne

Dr. Joann Stewart

Dr. Ann R. Howe

Dr. Anthony J. Simeone

Dr. Robert W. Spayne

Dr. John Weston

Dr. Raoul Freyre

Dr. Janet Duncan

Dr. Edward J. FitzPatrick

Dr. James Colbert

Dr. Myra Goldman

Dr. Peter Gordon

Dr. David L. Sudhalter or

Dr. Winston Langley

Dr. Robert A. Goodale or

Dr. Charles Budrose

A bachelor's degree with honors indicates to an employer or to a graduate school the special abilities and the advanced qualifications of the student in a specific discipline.

WHO'S WHO AMONG STUDENTS IN AMERICAN UNIVERSITIES AND COLLEGES

Boston State College is now recognized with more than 800 colleges and universities in this national honor organization for outstanding students. College sophomores and juniors are eligible for nomination. The criteria for membership are based on the student's scholarship, leadership, and cooperation in educational and extracurricular activities. General citizenship and the student's promise of future usefulness are also considered. Nomination is on a student-faculty-administration basis.

Evening Undergraduate College

The Evening Undergraduate College offers to students an opportunity to pursue a program of study during the evening hours. Those students wishing to pursue a degree program in the Evening College may work toward a Bachelor of Science or a Bachelor of Arts degree with a major in either English or History. These degrees will be non-teaching degrees.

Students may take a minimum of six semester hours and a maximum of eighteen semester hours during each semester.

FACULTY

The Faculty of the Evening College is composed of the faculty of the Day College and selected visiting lecturers.

CLASS SESSIONS

From September to June, classes are held Monday through Thursday evenings from 4:30 to 9:25.

ADMISSION PROCEDURES

Admission procedures to the Evening Undergraduate College are the same as those for the Day College.

TUITION AND FEES

Tuition and Fees for the Evening Undergraduate College are the same as for the Day College.

STUDENT GOVERNMENT ASSOCIATION

Evening College Students elect two representatives to the Student Government Association to represent them and to present their views to this body. Evening College students are encouraged to participate fully in Student Government Activities.

VETERANS NOTICE

The Massachusetts Department of Education has been authorized to issue a Certificate of Exemption from payment of tuition to qualified veterans. This certificate entitles a veteran to free tuition during a given academic year. Certificates are issued for study at any state institution of higher education in the Commonwealth and to any veteran whose service was credited to the Commonwealth. Eligible veterans must have served more than 180 days on active duty in the U.S. Armed Forces after February 1, 1955. Certificates of exemption are renewable for no more than three years, provided the student's academic standing is satisfactory.

Eligible veterans should report with their discharge papers to the State Adjutant General's Office to initiate the application procedure. This should be done as soon as possible.

Veterans whose certificates are not on file prior to receiving bills must pay tuition and a refund will be processed upon receipt of the certificates.

FURTHER INFORMATION

For further information concerning the Evening Undergraduate College, contact Gerard M. O'Meara, Dean of the Evening College, in Room 111A.

Graduate Study Division

Since 1926 the Day Graduate Program and the Program of Continuing Studies have both been awarding the Master of Education degree under essentially identical programs. In the fall of 1972 all matriculated graduate students will pursue their studies under the auspices of the Graduate Study Division.

The Graduate Division is administered by the Dean of Graduate Studies with the advice and cooperation of the Graduate Council, comprised of department chairmen and faculty, in the various disciplines of the college which are involved with Graduate Studies.

The Graduate Study Division offers programs leading to the Master of Education degree with a concentration in one of the following areas:

Bilingual Education	School Administration
Early Childhood Education	Special Education
Elementary Education	Special Education for the
Guidance and Counseling	Emotionally Disturbed
Reading	Urban Studies

An Academic Area:

English	Political Science
History	Psychology
Mathematics	Social Studies

A Specialized Area as arranged by the Dean of Graduate Studies with the cooperation of the Graduate Council.

ADMISSION AND MATRICULATION

Candidates for graduate study are admitted and matriculated on the basis of their undergraduate performance, their results in the Graduate Record Examinations, any prior graduate study and a personal interview.

THE GRADUATE OFFICE

Requests for information as well as for the scheduling of interviews should be addressed to Dr. Francis P. O'Hara, Dean of Graduate Studies, Boston State College, 625 Huntington Avenue, Boston, Massachusetts 02115.

Program of Continuining Studies

The Program of Continuing Studies offers courses at both graduate and undergraduate levels. The primary aim of the program is to provide interested persons with the opportunity to take courses on a part-time basis for personal enrichment and professional advancement.

In the past the Program of Continuing Studies has offered the Master of Education degree to students who wished to obtain it on a part-time basis, primarily teachers interested in advancing themselves professionally. With the establishment of a Graduate Study Division, the Program of Continuing Studies will no longer be responsible for matriculating and counseling students interested in receiving a graduate degree. Any student desiring a Master of Education degree will come under the direction of the Dean of Graduate Studies at the time of matriculation.

Divesting the Program of Continuing Studies of its graduate degree granting responsibility provides an opportunity for that division of the college to pursue its true responsibility in the areas of Adult Education and Community Service. In Adult Education the established goals are both cultural and utilitarian. Some examples of courses to be offered here are: Personality Development, Consumer Education, Money and Banking, Physical Fitness, Home Care and Home Planning.

Our purpose in offering Community Service courses is to meet the immediate needs of our local community. Some of these courses will be offered on the local campus and others will be located off campus depending on demand and availability of proper physical facilities. Some examples of these programs are as follows: Law Enforcement, Bilingualism, Training of Teacher Aides, Recruitment of Minority Teachers, Training of Governmental Workers, Training of Paraprofessionals, Drug Education, and courses for nurses.

It is planned to grant academic credits for those courses which can be fitted into our college degree. In some situations the courses offered will be advertised as non-credit courses. Enrollment in the credit granting courses will be regulated by our published requirements while the admissions to non-credit courses will be on a basis of first come first served.

Administratively, the Program of Continuing Studies will continue to be responsible for all aspects of continuing education involving finance, physical facilities, scheduling, faculty hirings and any other organizational tasks.

For further information, contact Thomas F. Dungan, Director of Continuing Studies, Room 109A.

Departments and Programs

Prerequisites are listed as a guide for the student. Students with a proficiency in a prerequisite area should consult the department chairman prior to registration.

Where not indicated at the beginning of each department listing, the class meetings are given in the upper right hand corner of each course description. *C.L.* is the number of lecture hours; *L.* is the number of laboratory hours; and *S.H.* is the number of semester hours to be awarded each semester.

AFRO-AMERICAN

Albert A. Thompson, Ph.D., Chairman

This is an interdisciplinary program. Its scope includes all aspects of past and present experiences of Black people in Africa, America, and elsewhere.

The concentration leading to the B.A. and B.S. degrees requires 30 semester hours for a major and 18 for a minor.

AA101, Introduction to Black Studies, is required of all majors and minors.

Majors must also include two courses from each of the following groups:

A. American Black Experience: AA210, E416, E417, H219, H224.

B. African Black Experience: AA410, AN212, GV203, H314, H320.

C. Modern Black Experience: AA301, AA304, ED238, SO303, PY333.

Minors must complete one course from each of the above groups.

Other courses to complete requirements should be chosen in consultation with the Department Chairman.

The interdisciplinary courses listed below may be used toward a major or minor in Afro-American Studies with the consent of the Chairman.

Cultures of Black Africa	AN212
Black American Literature I, II	E416, E417
Urban Education	ED238
Politics of Modern Africa	GV203
Civil Liberties	GV319
Black American History I, II	H219, H224
History of Africa I, II	H314, H320
History of the New South	H316
Interracial Group Experience	PY333
Race Relations	SO303

All courses meet three hours each week for three semester hours.

AA101 INTRODUCTION TO BLACK STUDIES

To introduce potential majors and minors to the field, the Black experience in literature, history, education, music, art, and political structures will be surveyed.

AA111-112 ELEMENTARY SWAHILI (Formerly AA110)

Introduction to the language with emphasis on developing conversational ability and reading knowledge through selections from Swahili literature.

AA121-122 INTERMEDIATE SWAHILI

Prerequisite: AA111-112. A continuation of first year Swahili to develop facility in conversation and reading plus a basic knowledge of Swahili literature. **Language laboratory.**

AA201 BLACK BIOGRAPHY

A study of Black life, personality, and achievement in the white-dominated environment of the United States as shown in several autobiographies.

AA204 AFRICAN AND AFRO-AMERICAN MUSIC

Examination of Black music from African origins to American expression, with emphasis on development of various forms of Blues and Jazz.

AA210 SLAVERY IN THE AMERICAS

A comparative study of the origins, nature, and history of slavery as an economic and social system in the United States, West Indies, and Brazil, its impact on the slaves and their reactions to it.

AA214 AFRICAN LITERATURE

Introduction to plays, poetry, short stories, and novels of modern Africa with critical reading for literary merit as well as statements about African society.

AA301 BLACK INSTITUTIONS

The history and nature of community organizations in the United States such as churches, social and self-help societies, businesses, and protest movements, including the modern concept of community control of institutions closely affecting the lives of Black people.

AA302 THE BLACK FAMILY

A historical and sociological study of the Black family in the United States, with comparative materials from the West Indies and Africa, examining how slavery and urbanization have affected Black family life.

AA303 BLACK RELIGION

The nature and history of religious experience and ethics among Black peoples in the United States, Latin America, and Africa, including Black churches and their relations with white churches.

AA304 THE BLACK URBAN EXPERIENCE

The sociology, economics, and politics of the modern ghetto, and the ideologies, strategies, and goals of current movements toward change, with field work in the Roxbury community.

AA401 BLACK NATIONALISM

History and theory of nationalist movements in the United States, Africa, and Latin America, based on the common experience of discrimination and colonialism.

AA410 MODERN SOUTHERN AFRICA

The sociology, politics, and economics of some African societies in white-dominated states, stressing their protest literature and resistance movements.

E416 BLACK AMERICAN LITERATURE I

A study of major works of Black American Literature from slavery to the Harlem Renaissance comprises this course. It will include folk tales and slave narratives.

E417 BLACK AMERICAN LITERATURE II

A study of the major works of Black American Literature from the Harlem Renaissance to contemporary writings from Langston Hughes to Don L. Lee.

ART

Vincent J. Tringale, Chairman

The courses offered by the Department of Art are designed to develop perception, imagination, intelligence, and creativity. In order to foster these abilities and to promote a general understanding of man's aesthetic nature, a program in both the theoretical and the practical aspects of art has been provided.

The film, photography, and screen media courses offered by the department are seen as a series of introductory courses to visual media. As the need warrants, other aspects in visual and aural media will be included.

A minor in art may be acquired by students who will take courses totaling a minimum of 18 semester hours of art elective courses as designated by the Department of Art.

Attendance requirements: Because of the nature of studio work, attendance in class is part of the requirement of studio courses. Credit for all class projects will be granted only if these are developed in class under the supervision of the instructor.

All courses meet three hours each week for three semester hours unless otherwise indicated.

A101 DESIGN

Problems in space, line, form, color, and texture are considered and developed in various techniques.

A102 INTRODUCTION TO DRAWING AND PAINTING

Prerequisite: A101. Figure drawing, perspective and water color are emphasized in separate units in one semester. The fostering and extension of previously developed techniques are emphasized.

A200 INTRODUCTION TO GRAPHICS

1C.L., 2L.

Prerequisite: A102. Originality and craftsmanship are encouraged in the student's preparation and reproduction of designs in monoprinting, silk screen, linoleum and wood cuts, lithographic crayon preparation, celluloid etching, and other techniques. Open only to Juniors and Seniors.

A201 ART APPRECIATION

This course introduces the student to an approach to the works of the artist and to important writings in aesthetics. Analysis of the visual language is developed through slide lectures, museum visits, and assigned reading. Emphasis is placed on the aesthetic appreciation of the various areas within the socio-historic context.

A202 STRUCTURE IN THE VISUAL ARTS

A lecture-laboratory approach to an appreciation of art through cognitive reasoning and visual discrimination. Through analysis of works of art, the student is expected to experience a greater insight into the creative process. As a follow-through of the above, the student will create his own interpretations in varied art media.

A203 INTERMEDIATE DRAWING AND PAINTING (A)

1C.L., 2L.

Prerequisite: A102. An objective approach to the recording of nature. Still life, portrait and landscape paintings are executed in opaque and transparent prints to develop the student's powers of observation.

A204 INTERMEDIATE DRAWING AND PAINTING (B)

1C.L., 2L.

Prerequisite: A203. A course in painting experimentation and free interpretation of the object, stressing an individual search for form and color. An individual style and personal direction are expected to be developed by the student.

A205 HISTORY OF RENAISSANCE ART

Prerequisite: A201. This course will treat the arts of the 14th, 15th, and 16th centuries as a record of the intellectual, humanistic, and aesthetic embodiment of the spirit which is the basis of modern thought. It will explore the impact of the mind of man in his creative quest for imposing intelligence, creativity, and skill upon ideas and materials especially as seen in the arts of this unique period of man's history.

A206 AMERICAN ARCHITECTURE (1600-1850)

Prerequisite: A201. This course will survey those periods of American Architecture dealing with Early American, Georgian, Federal, Greek Revival, and American Gothic. The emphasis will be on the rich architectural heritage of Boston and New England. Research projects required will deal particularly with buildings of historical interest in the area.

A207 HISTORY OF BAROQUE ART

Prerequisite: A201. This course will explore the major art works of the 17th and 18th centuries, with special emphasis on the Baroque Style, also including the styles that run parallel and counter to it—Realism, Classicism, Rococo, and Neo-Classicism—as the “middle term” between the Renaissance and the modern age.

A301 ADVANCED PAINTING (A)

1C.L., 2L.

Prerequisite: A204. A course in which the personal and individual style of the student is used to solve problems of self-expression, augmented by the knowledge of design, using mixed media, collage and paint.

A302 ADVANCED PAINTING (B)

1C.L., 2L.

Prerequisite: A301. This course stresses the personal painting style of the student. Individual interpretation of subject matter will be discussed and examined through critique.

A303 THE ARTS OF THE UNITED STATES

Prerequisite: A201. This course will cover painting, sculpture and architecture in America from the time of the colonies to the present. “Revival Periods” and Contemporary styles will be discussed and analyzed.

A304 MODERN AND CONTEMPORARY ART

Prerequisite: A201. The course traces the development and influence of man's activities in Europe and the Americas in the twentieth century and its effect upon painting, sculpture, architecture, and the minor arts.

A305 INTRODUCTION TO ORIENTAL ART

The study in depth of classic periods of Indian, Chinese, and Japanese art with readings in literature and philosophy of religion as well as history, as requisite background for understanding the Eastern context. A seminar atmosphere will be emphasized as well as use of the Oriental Art Collection of the Boston Museum of Fine Arts.

A306 BASIC SCULPTURE

Introduction to basic techniques of additive and subtractive sculpture. Relief as well as sculpture in the round projects will be executed. Plastic, clay, wood, wire and styrofoam are the materials to be explored. Casting in plaster will be emphasized. **Open only to Juniors and Seniors.**

A315 ART FOR THE KINDERGARTEN-PRIMARY LEVEL

Required of Kindergarten-Primary majors. A study of the foundations and current objectives of art educators and their application to the grade levels concerned with this course.

A316 ARTS AND CRAFTS—KINDERGARTEN-PRIMARY LEVEL 2L., 1S.H.
Prerequisite: A315. Required of Kindergarten-Primary majors. A studio course designed to give a working knowledge of the basic techniques in two and three dimensional art deemed essential on the kindergarten and primary levels.

A325 ART FOR THE ELEMENTARY SCHOOL
Required of Elementary Education majors. An introduction to various philosophies of art education, past and present. This course is designed to acquaint future teachers with the wide scope in the various areas of child growth and development as related in their art.

A326 ARTS AND CRAFTS—ELEMENTARY LEVEL 2L., 1S.H.
Prerequisite: A325. Required of Elementary Education majors. A workshop course designed to introduce the student to the wide variety of media and materials and in the use of these in two and three dimensional art projects.

A401 SEMINAR IN PAINTING 1C.L., 2L.
Prerequisite: A302. An advanced painting course, conducted under seminar conditions for philosophical and visual inquiry into the personal style of each student through ideas and critique.

A402 VISUAL AESTHETICS FOR THE CLASSROOM TEACHER
A course specifically recommended for all students who plan to teach at either the elementary or secondary level. Specific projects individually programmed to both areas in order to facilitate an awareness and understanding of the aesthetic environment for learning. **Open only to Juniors and Seniors.**

A403 ART MEDIA, PROCESS AND PRACTICE 4L.
Prerequisite: A102. In this course opportunity is given to the student to become acquainted with media and to develop a better understanding of the objectives, principles and practices of art expression.

A404 VOLUME DESIGN 4L.
Prerequisite: A102. A course devoted to discovering the principles of form and space in architecture, sculpture and other three-dimensional arts. Students will work with a variety of sculptural materials including plaster, clay, wood, etc.

A490 HONORS SEMINAR IN ART OR ART EDUCATION
Under faculty supervision pursuing, in depth, a phase of art, art history, or art education. Involves guided research, studio work, developmental experimentation and written conclusions. Will confer honors if other requirements are satisfied. Hours variable.

FILM AND PHOTOGRAPHY COURSES

AF101 PHOTOGRAPHY: THEORY AND PRACTICE 1C.L., 2L.
Intended for students with little or no previous experience in photography. Basic technology covered but emphasis will be on photography as a medium of communication and expression. Equipment supplied. Registration limited with priority given to students who have taken A101 or A202.

AF102 FILM: THEORY AND PRACTICE 1C.L., 2L.
A course providing basic experience and understanding of communication and expression through film for students with little or no previous experience in film. Consideration of a variety of theoretical approaches to film with instruction and practice in basic film making. Equipment supplied. Registration limited with priority given to students who have taken A101 or A202.

AF201 SURVEY OF FILM

1C.L., 2L.

An overview of many types, genera, and styles of film making. Genera to be included are the feature film, the documentary film, and the experimental film.

AF301 SCREEN EDUCATION

1C.L., 2L.

A course exploring the uses of the popular mass media in formal and informal educational situations. Consideration will be given to the impact and influence of films and television on children and young people with emphasis centered on the aesthetic design of educational communication. Also covered will be the philosophy and methods of "screen education." Illustrations for the course include media (film, TV, audio-tapes, etc.) made by children and young people. Priority given to students with AF101 and/or AF102.

AF302 ART AND FILM TECHNOLOGY

1C.L., 2L.

A seminar and laboratory course exploring the use and potential application of modern technology, especially the visual media of photography, film, and television in traditional art forms. Admission by consent of department.

BIOLOGY

Rita McCauley, Ph.D., Chairman

The department offers both major and minor programs in biology. All Biology majors must complete CH101-102 and CH203 or CH207. Two semesters of mathematics are required, preferably M109-110 or M103-107. Two semesters of physics are recommended. All biology majors must complete BI101-102, BI207-208, BI301, BI306, BI401 and BI402. While the introductory courses BI207-208 are set up for prospective biology majors, a student entering the program late may offer BI201-202 instead. Unusual program situations may be adjusted with the consent of the chairman of the department.

All biology majors are required to register with the biology department so that advisors may be assigned.

A minor in biology may be developed from a combination of courses for which the student has the stated prerequisites.

The department also offers a major in Medical Technology. The program of Medical Technology consists of three years of study at Boston State College followed by one year of technical training at a hospital school approved by the American Medical Association and the Board of Registry of the American Society of Clinical Pathology.

Before engaging in clinical training at an approved hospital school, a student must have acquired a minimum of 94-96 semester hours credit at Boston State College. This includes the college general education requirements and the requirements of the American Society of Clinical Pathology, consisting of a minimum of 16 semester hours each of approved biology and chemistry courses.

After satisfactory completion of the requirements at the end of the sixth semester at Boston State College, one complete year (32 semester hours credit) will be completed at one of the affiliated hospital schools. Students should apply to the hospital school of their choice at the beginning of the fifth semester of college work.

When the prescribed four year program has been satisfactorily completed, students are eligible to receive the Bachelor of Science degree with a major in Medical Technology from Boston State College. Graduates are then eligible for examination for certification by the Registry of Medical Technologists of the American Society of Clinical Pathologists.

Freshmen interested in being admitted to the program must apply in writing, after official admission to the college, to Mrs. Marie Tierney, Director of the program.

All courses meet three hours each week for three semester hours unless otherwise indicated.

BI101-102 FRESHMAN ORIENTATION SEMINAR 1C.L., 0S.H.
Current developments in biology will be discussed. An opportunity will be given to become familiar with the use of microscopes and other departmental equipment. Required of all future biology majors.

BI103-104 MEDICAL TECHNOLOGY ORIENTATION SEMINAR I, II 1C.L., 0S.H.
Required of all majors in Medical Technology. Designed to introduce the student to an understanding of the professional objectives and his role in Medical Technology. Discussions, hospital experiences, selected readings.

BI201 BIOLOGY I 2C.L., 2L., 3S.H.
The course introduces the student to the principles and problems basic to an understanding of life processes. Lectures and discussions are planned to broaden the concepts gained from laboratory work.

BI202 BIOLOGY II 2C.L., 2L., 3S.H.
Prerequisite: BI201. This is a continuation of Biology I emphasizing genetics, ecology and the diversity of life forms. Lectures and discussions are coordinated with laboratory work and readings.

BI204 BIOLOGY OF THE LOWER PLANTS 2C.L., 2L., 3S.H.
Prerequisite: BI201 or BI207. A consideration of the structure, functioning, and life cycles of significant representatives of the algae, fungi, lichen, liverworts, mosses, and ferns.

BI207 BIOLOGY OF THE HIGHER PLANTS 3C.L., 2L., 4S.H.
This course deals with the biology of the seed-bearing plants. Particular attention will be given to the chemical processes involved in photosynthesis, respiration, and nutrition. Lectures, demonstrations, laboratory work, and readings will be used. Required of biology majors in place of BI201.

BI208 INVERTEBRATE ZOOLOGY 3C.L., 2L., 4S.H.
Prerequisite: BI207. The non-chordate animals will be studied with emphasis on the reactions of the living organism. Culturing methods and care will be included. Lectures, demonstrations, laboratory investigations, and readings will be used. Required of biology majors in place of BI202.

BI211 ANATOMY 1C.L., 4L., 3S.H.
Prerequisite: BI202. The study of body organization with stress on the muscular and skeletal systems. Required of physical education majors.

BI301 VERTEBRATE MORPHOGENESIS 2C.L., 6L., 5S.H.
Prerequisite: BI202 or BI208. An integration of vertebrate comparative anatomy and embryology which considers mechanisms, interdependence, and the factors underlying structural transformations.

BI303 HISTOLOGY AND HISTOLOGICAL TECHNIQUES 2C.L., 4L., 4S.H.
Prerequisite: BI202 or BI208. A study of cells and tissues with attention given to their relation to the anatomy and physiology of the whole organism. Practice will be given in the preparation of tissues for microscopic study.

BI304 INTRODUCTION TO EXPERIMENTAL BIOLOGY 6L., 3S.H.
Prerequisites: BI202 or BI208; BI204 and CH102. An introduction to the particular working of the scientific mind through participation both as an individual and as a team member in work on a series of limnological investigatory units.

BI305 HISTORY OF BIOLOGY

1C.L., 1S.H.

A survey of the evolution of knowledge of the biotic world leading to a concept of the present state of biological science and the problems it faces.

BI306 ECOLOGY I

Prerequisite: BI202 or BI208. A study of the relationships of plants and animals to their environment. Behavior, structure, adaptation, and natural selection are the central themes. Three optional field trips.

BI307 ECOLOGY II

Prerequisite: BI306. Continues and presupposes BI306 dealing primarily with the patterns and origins of plant and animal distribution of the earth. The role of natural selection as an adaptive agent is emphasized.

BI308 MARINE BIOLOGY

2C.L., 4L., 4S.H.

Prerequisite: BI202 or BI208. G201 and BI306 are recommended. A study of the sea and organisms that live in it. Field trips and laboratory studies of marine plants, invertebrate and vertebrate animals found in the New England seas will be a major part of the work.

BI311 HUMAN PHYSIOLOGY

2C.L., 2L., 3S.H.

Prerequisite: BI211. The study of the functions of the organ systems. **Required of physical education majors.**

BI401 CELLULAR BIOLOGY

2C.L., 4L., 4S.H.

Prerequisites: BI202 or BI208; CH203 or CH207. The components of cells, their nature, characterization and functional role.

BI402 GENETICS

2C.L., 4L., 4S.H.

Prerequisite: BI202 or BI208. An introduction to the principles and physical basis of heredity. Laboratory experiences will include fundamental techniques used in modern genetic research.

BI403 HUMAN GENETICS

Prerequisite: BI208. Elective for majors in Medical Technology. Others with consent of instructor. The theories and principles of heredity and variation as applied to human development.

BI404 MICROBIOLOGY

2C.L., 4L., 4S.H.

Prerequisites: BI202 or BI208, CH102. Fundamentals of structure, growth, and habitat of the major groups of microorganisms. Laboratory experiences will give training in the basic methods of observation, propagation, and study of microorganisms.

BI405 SPECIAL PROBLEMS IN BIOLOGY

4L., 2S.H.

Prerequisite: BI304. Investigation into an open ended biological problem chosen from the student's special interests and needs. **Open only to biology majors.**

BI406 MEDICAL MICROBIOLOGY

2C.L., 4L., 4S.H.

Prerequisite: BI208. **Required of Medical Technology majors.** An introduction to research, methods, principles and theories in isolation, cultivation, identification, and control of pathogens.

BI407 ADVANCED MICROBIOLOGY

2C.L., 4L., 4S.H.

Prerequisite: BI404. A study of the isolation and identification of microbiotic forms. Principles in immunology and serology as related to parasitic form will be discussed.

BI408 COORDINATING SEMINAR IN BIOLOGY 2C.L., 2S.H.
Reading, lectures, and discussions designed to unify and strengthen the background of students in modern biology. **Open only to senior biology majors.**

BI409 PLANT PHYSIOLOGY 2C.L., 4L., 4S.H.
Prerequisite: BI401. The major physiological processes of plants.

BI411 VERTEBRATE PHYSIOLOGY 2C.L., 3L., 3S.H.
Prerequisites: BI301, BI401. A study of the life processes of vertebrate animals, including circulation, respiration, excretion, digestion, reproduction, nervous system, special sense organs, and the endocrine system.

BI415 ANATOMY AND PHYSIOLOGY I 2C.L., 4L., 4S.H.
Prerequisites: BI208, CH102. **Required of Medical Technology majors.** A study of the human organism correlating structure and physiological mechanisms. Emphasis on skeletal, muscular, nervous, endocrine, and reproductive systems.

BI416 ANATOMY AND PHYSIOLOGY II 2C.L., 4L., 4S.H.
Prerequisite: BI415. **Required of Medical Technology majors.** Emphasis on digestive, circulatory, excretory, and respiratory systems.

BI421 ENVIRONMENTAL BIOLOGY
The course is designed to acquaint students with the plants and animals of New England and with problems of environmental conservation. Field trips.

BI490 HONORS RESEARCH IN BIOLOGY
Prerequisites: BI304 and approval of the Honors Committee. The student will conduct independent research under faculty direction and will present an oral and written presentation of the investigation.

MT493-494 CLINICAL INTERNSHIP I, II 30-32S.H.
Required of all Medical Technology majors. Admission only with the approval of Coordinator of Hospital School of Medical Technology and college Director of the program. Lecture and laboratory work in microbiology, blood banking, hematology, clinical chemistry, etc., under the supervision of qualified staff of an accredited hospital school of Medical Technology.

CHEMISTRY

Henry Mariani, Chairman

Programs are available with proper emphasis for those preparing to teach chemistry at the high school level, for those interested in a career in industry and for those who wish to continue their education in a graduate school. Majors in chemistry are required to take the following courses: CH101, CH102, CH201, CH202, CH203, CH204, CH303, CH304, CH306, CH401.

A student who is considering graduate school or industry can best accomplish these ends by also including CH402, CH403. These are senior courses and are recommended in the guidelines set forth by the American Chemical Society. As a further introduction to the work being carried on in the field of chemistry, senior research under the guidance of a faculty member is also offered.

A Minor in Chemistry requires the following courses: CH101, CH102, CH201 or CH205; CH203 or CH207; and at least one of the following: CH202, CH204, CH305.

Candidates for a degree in Chemistry with a secondary education minor are required to take the following: CH101, CH102, CH201, CH202, CH303, CH305, and ED336S.

All courses meet three hours each week for three semester hours unless otherwise indicated.

CH101 PRINCIPLES OF CHEMISTRY I 3C.L., 3L., 4S.H.

A quantitative approach to modern chemistry. Principles and concepts which form the bases of chemical theory are emphasized. Atomic and molecular structure, chemical bonding, kinetic theory, periodicity and stoichiometry. The laboratory is designed to develop the concepts covered in lecture.

CH102 PRINCIPLES OF CHEMISTRY II 3C.L., 3L., 4S.H.

Prerequisite: CH101. A continuation of the previous semester dealing with the following topics: energy changes, solutions, acid-base theory, equilibrium theory, thermochemistry and electrochemistry. The laboratory consists of more advanced work in techniques and qualitative analysis.

CH103 GENERAL CHEMISTRY I 3C.L., 3L., 4S.H.

The properties of matter, the gas laws, atomic structure, periodicity, bonding and energy changes in reactions are the topics treated in the first semester. The laboratory experience is correlated with the lecture material.

CH104 GENERAL CHEMISTRY II 3C.L., 3L., 4S.H.

Prerequisite: CH103. This is a continuation of the first semester and treats the chemistry of solutions, chemical equilibrium, nuclear chemistry, and an introduction to organic and biological chemistry. The laboratory is correlated with the lecture material.

CH105 ENVIRONMENTAL CHEMISTRY

A survey course for students interested in learning the impact of modern chemistry and chemical technology on the environment. A brief survey of the chemical principles needed to intelligently discuss the course material will be followed by a consideration of topics such as air pollution, water pollution, pesticides, food additives, and energy sources.

CH107 INTRODUCTION TO CHEMISTRY I 3C.L., 4L., 4S.H.

Atomic and molecular structure, bonding energetics and chemical reactions as well as the theoretical principles of general chemistry are considered.

CH108 INTRODUCTION TO CHEMISTRY II 3C.L., 4L., 4S.H.

Prerequisite: CH107. Basic organic chemistry, nomenclature, classes of compounds and reactions of these classes are discussed as an introduction to a survey of biochemistry which is then treated. These are developed for application to the techniques used in forensic science.

CH201 QUANTITATIVE ANALYSIS I 3C.L., 4L., 4S.H.

Prerequisite: CH102. A laboratory and lecture course which treats the areas of gravimetric analysis, acid-base theory and neutralization reactions. The collection of data, proper record keeping and the evaluation of experimental data are an important part of the course.

CH202 QUANTITATIVE ANALYSIS II 3C.L., 4L., 4S.H.

Prerequisite: CH201. Volumetric, complexometric and redox methods are emphasized. Basic instrumentation systems, pH meters, spectrophotometers, conductometric titrations and an introduction to polarography.

CH203 ORGANIC CHEMISTRY I 3C.L., 4L., 4S.H.

Prerequisite: CH102. Nomenclature, detailed treatment of structure, stereochemistry, mechanisms of reactions and synthetic procedures of the following classes of organic compounds: alkanes, alkenes, alkynes, alkyl halides, alcohols, organocarboxylic acids, esters, and carbonyl compounds. The laboratory work is designed to develop proper techniques with liquids and experience in synthesis of liquid substances.

CH204 ORGANIC CHEMISTRY II 3C.L., 4L., 4S.H.

Prerequisite: CH203. A continuation of CH203 with a treatment of amines, carbonic acid derivatives, sulfur compounds, amino acids, proteins, sugars, benzene and its derivatives. The laboratory work is involved in the techniques of handling solids and the synthesis of solid substances.

CH205 QUANTITATIVE CHEMISTRY 3C.L., 3L., 4S.H.

Prerequisite: CH102 or CH104. A survey of analytical procedures. Topics included will be gravimetric and volumetric analysis, the pH meter, spectrophotometry and chromatography. **Not open to chemistry majors.**

CH207 BASIC ORGANIC CHEMISTRY 3C.L., 3L., 4S.H.

Prerequisite: CH102. The fundamentals of organic chemistry are discussed. Topics included will be structure nomenclature, functional groups, reactions, methods of synthesis and analytical procedures. The biological aspects of organic compounds will be noted whenever possible. **Not open to chemistry majors.**

CH211 CRIMINALISTICS

Prerequisite: CH108. An introduction to, and evaluation of, the various scientific aids available for the documentation of physical evidence.

CH212 SPECIAL TOPICS IN FORENSIC CHEMISTRY 1C.L., 2L., 2S.H.

Prerequisites: CH211 and grades of 2.0 in CH107-108. Specific current techniques used in forensic chemistry will be discussed and demonstrated by laboratory experiments. The principle studies will be in the fields of serology, chromatography and spectroscopy directed, as far as possible, to actual problems.

CH221 INSTRUMENTATION IN CLINICAL CHEMISTRY 2C.L., 4L., 3S.H.

Prerequisites: CH102 and CH201 or CH205. The course is concerned with the theory and use of instruments in general use in clinical laboratories.

CH303 PHYSICAL CHEMISTRY I 3C.L., 4L., 4S.H.

Prerequisites: CH202, M207, P102. Laws and natures of gases, liquids and solids. Properties of solutions and thermochemistry are covered in this course. Intensive laboratory exercises in these areas accompany the lectures and are an integral part of the course.

CH304 PHYSICAL CHEMISTRY II 3C.L., 4L., 4S.H.

Prerequisite: CH303. A detailed study of types of equilibria, chemical kinetics and electrochemistry are the subject matter for this part of the course. The laboratory is a continuation of the first semester, with more complex techniques being done and more advanced experiments.

CH305 BIOLOGICAL CHEMISTRY 3C.L., 3L., 4S.H.

Prerequisites: CH201, CH203. Chemistry of carbohydrates, lipids, proteins, and other materials of biological importance; the transport, reactions and role of these substances in the living organism are treated along with intermediary metabolism and biological oxidation.

CH306 QUALITATIVE ORGANIC ANALYSIS 2C.L., 4L., 3S.H.

Prerequisites: CH202, CH204. Qualitative and quantitative analysis of selected organic compounds will be used to teach the fundamentals of research techniques in the field of organic chemistry.

CH307 RADIOCHEMISTRY 2C.L., 3L., 3S.H.

Prerequisite: CH205. Types of radioactive decay, methods of detection and measurement of radioactivity and the application of radioactivity to various scientific disciplines are discussed. Laboratory work in tracer methodology, counting techniques and health physics.

CH401 ADVANCED INORGANIC CHEMISTRY

Prerequisites: CH202, M207. The consideration of the modern theories of atomic structure, chemical bonding, and molecular structure and their application to various topics in inorganic chemistry such as acid and base theory, ionic crystals, boron hydrides and coordination theory.

CH402 BIOCHEMISTRY

3C.L., 4L., 4S.H.

Prerequisites: CH204, CH304. Protein structures and conformations, protein interactions, proteins as enzymes, oxidations, free energy and kinetics of biological systems are considered.

CH403 CHEMICAL INSTRUMENTATION

2C.L., 4L., 3S.H.

Prerequisite: CH304. The theory and application of modern methods of instrumentation useful in chemical analysis will be discussed. Emphasis will be placed on electrochemical methods, spectrophotometry, chromatography and nuclear magnetic resonance.

CH407 SYNTHETIC ORGANIC CHEMISTRY

2C.L., 4L., 3S.H.

Prerequisite: CH204. Includes the study of additional classes of compounds and special topics of interest in organic chemistry. Emphasis is placed on synthetic methods, including mechanisms, and the scope and limitations of the important name reactions most frequently encountered in synthetic processes.

CH490 SENIOR RESEARCH AND HONORS

2S.H.

Research problems under faculty direction involving literature search, laboratory work and a written account of the results. Will confer honors if other requirements are also fulfilled.

ECONOMICS

Joann P. Stewart, Ph.D., Chairman

An economics major is available for all liberal arts candidates working for the B.S. or B.A. degree. Economics majors are required to complete 30 semester hours in economics including the following courses: EC101, EC102, EC206, EC301, EC302. M402 may be substituted for EC206.

A minor in economics is open to all degree candidates. A minor must complete EC101, EC102, and a total of 18 hours in economics.

The Economics department participates in the Honors program.

All courses meet three hours each week for three semester hours.

EC101 PRINCIPLES OF ECONOMICS I

A study of the basic economic principles and institutions which determine the production, exchange, and distribution of wealth in a modern industrial nation. Emphasizes the macro approach. Students taking this course cannot also receive credit for EC107.

EC102 PRINCIPLES OF ECONOMICS II

Prerequisite: EC101. Continues EC101. Emphasizes the micro approach.

EC103 FINANCIAL ACCOUNTING AND CONTROL I

A study of the basic principles of accounting and their uses as tools for economic analysis and managerial decision making.

EC104 FINANCIAL ACCOUNTING AND CONTROL II

Prerequisite: EC103. Covers topics such as budget administration, cost accounting systems, full and direct costing, differential costing, income determination, and use of return on investment.

EC107 BASIC ECONOMICS

A course specifically designed to meet the needs of the elementary social studies teacher by covering in depth those topics found in the modern social studies curriculum. **Not open to those who complete EC101 or EC102.**

EC204 LABOR ECONOMICS

Prerequisite: EC102. An analysis of manpower economics including unemployment, labor markets stressing wages and mobility, and unions with an emphasis on collective bargaining and the law.

EC205 ECONOMIC DEVELOPMENT

Prerequisite: EC102. The special problems of growth in underdeveloped countries: capital requirements, institutional change, population problems, and free market vs. central planning form the core of this course.

EC206 ECONOMIC STATISTICS

Prerequisite: EC102. An analysis of measures of central tendency and dispersion, sampling theory, hypothesis testing, index numbers, regression and correlation analysis, and time series analysis.

EC207 MONEY, BANKING, AND CREDIT

Prerequisite: EC102. A study of the monetary system in the United States including the structure and organization of the Commercial Banking system, the framework and process of Federal Reserve Control, and non-bank financial intermediaries.

EC208 MONETARY THEORY AND POLICY

Prerequisite: EC301. An analysis of the Classical Theory of Money, money in the Keynesian system, restatement of the Quantity Theory, Interest Theory, price behavior, and elements of domestic and international monetary policy.

EC301 INTERMEDIATE ECONOMIC THEORY I: MACROECONOMICS

Prerequisite: EC102. Analysis of income determination with emphasis on theories of consumption and investment; development of modern monetary theory, and inflation theory.

EC302 INTERMEDIATE ECONOMIC THEORY II: MICROECONOMICS

Prerequisite: EC102. Analysis of economic choice decisions as they affect the individual consumer, the firm, and the resource markets.

EC303 HISTORY OF ECONOMIC THOUGHT

Prerequisite: EC102. The development of economic theory from Plato to modern theorists, with emphasis on the classical economists, Marx, and J. M. Keynes.

EC304 GOVERNMENT AND BUSINESS

Prerequisite: EC102. An analysis of the effect on market performance of government policies to promote competition and regulate monopoly.

EC305 INTERNATIONAL TRADE

Prerequisite: EC102. Theory of international trade, theory of factor movements, balance of payments, monetary adjustments, effects of tariffs, role of international agencies, and the third world.

EC306 AMERICAN ECONOMIC HISTORY

Prerequisites: EC102, H201, H202. An analytical study of the growth and development of the American economy from the Colonial period to the present.

EC308 CORPORATE FINANCE

Prerequisites: EC102, EC104. Distribution of corporation assets, sources and costs of short- and long-term funds, relevant institutions.

EC309 INVESTMENT PRINCIPLES

Prerequisites: EC102, EC104. Criteria for investment decision making, problem of risk, size, and timing of investment, consideration of depreciation and technological change.

EC310 PUBLIC EXPENDITURE AND FINANCE

Prerequisite: EC102. Study of the welfare aspects of spending and taxation on all levels of government; analysis of major kinds of taxes including incidence and policy implications.

EC401 COMPARATIVE ECONOMICS

Prerequisite: EC102. An analytical study of various forms of organizing economic activity, including centrally planned, mixed, and free market economies.

EC402 URBAN ECONOMIC PROBLEMS

Prerequisite: EC102. Analysis of the economic basis of the growth of cities. Study of financial and economic costs of urban growth: manpower, transportation, housing, etc.

EC403 BUSINESS CYCLES AND GROWTH

Prerequisite: EC301. An examination of the growth and fluctuations on income in advanced Western economies, with special attention to the United States since World War II.

EC404 MANAGEMENT ECONOMICS

Prerequisites: EC102, EC104. The decision making process in a business enterprise, cost analysis, linear programming, and the theory of organization.

EC490 SPECIAL TOPICS IN ECONOMICS

The student will do independent research on a topic determined by the student in consultation with the department chairman.

ELEMENTARY EDUCATION

Ann M. Gavin, Ed.D., Chairman

The elementary and kindergarten-primary curricula have as an objective the thorough professional preparation of teachers at the levels indicated. To this end basic courses are offered and required in general and specific methods of teaching. In addition, experiences in the evaluation of learning and observation of youngsters in the classroom setting are considered essential. To these areas of preparation is added a full semester of supervised student teaching.

Majors in elementary education (elementary education and kindergarten-primary education) should note that all courses in the major taken in other departments may not be credited toward the minor in that department (e.g., PY201 and PY310 cannot be credited toward a Psychology minor).

ELEMENTARY EDUCATION

Cat. No.	Course Name	S.H.
PY310	Educational Psychology	3
PY201	Child Psychology, Laboratory School Observation	3
A325	Art for the Elementary School	3
ED321	Communicative Arts, Reading	3
ED323	Principles and Current Techniques of Teaching	2
M305	Basic Modern Mathematics, Laboratory School Observation	3

PE301	Physical Education Methods	1
A326	Arts and Crafts	1
ED322	Communicative Arts, Language	3
ED328	Social Studies Methods	2
ED329	Science Methods	2
E321	Literature for Children	3
M326	Methods of Teaching Mathematics in the Elementary School	2
ED422	Educational Measurement	2
MS422	Music, Elementary School	3
ED400	Student Teaching and Seminar	12

KINDERGARTEN-PRIMARY EDUCATION

Cat. No.	Course Name	S.H.
PY310	Educational Psychology	3
PY201	Child Psychology, Laboratory School Observation	3
A315	Art for the Kindergarten-Primary Level	3
ED311	Communicative Arts, Reading	3
ED313	Kindergarten-Primary Principles	3
M305	Basic Modern Mathematics, Laboratory School Observation	3
PE301	Physical Education Methods	1
A316	Arts and Crafts	1
ED312	Communicative Arts, Language	3
ED314	Kindergarten-Primary Principles	3
E321	Literature for Children	3
M316	Methods of Teaching Mathematics in the Kindergarten-Primary School	2
ED422	Educational Measurement	2
MS411	Music, Kindergarten-Primary	3
ED400	Student Teaching and Seminar	12

URBAN SPECIALIZATION

Cat. No.	Course Name	S.H.
ED323U	Principles and Methods in Urban Education	3
ED321U-	Methods and Materials for Teaching Reading and	6
322U	Language Arts in the Urban Schools (2 semesters)	
ED329U	Social Learnings in the Urban Environment	3
ED329	Science Methods	2
ED422	Educational Measurement	2
PY310	Educational Psychology	3
PY201	Child Psychology	3
A325	Art for the Elementary School	3
A326	Arts and Crafts	1
PE301	Physical Education Methods	1
MS422	Music, Elementary School	3
M305	Basic Modern Mathematics	3
M326	Methods of Teaching Mathematics in the Elementary School	2
ED400	Student Teaching and Seminar	12

The following minor program is designed for those students majoring in Elementary Education with an Urban Specialization. In addition to the Workshop in Urban Education and Curriculum for the Urban School, 12 additional credits are required from *one* of the following groupings:

A. The Community

- AN201 Cultural Anthropology
- PY333 Interracial Group Experience
- GV310 Urban Government
- SO206 Social Welfare
- SO303 Race Relations
- SO308 Sociology of Education
- SO307 Urban Sociology
- SO401 Social Interaction
- SO404 Sociology of Deviance and Social Control

B. The Child in the Community

- PY333 Interracial Group Experience
- PY301 Social Psychology
- PY305 Psychology of Creativity
- PY312 Psychology of Exceptional Children
- SO302 Crime and Delinquency
- SO405 Sociology of Attitudes and Emotions
- AA302 The Black Family
- GV322 The Contemporary Puerto Rican
- LM210 Methodology and Practice in ESL
- AN201 Cultural Anthropology

C. The Family

- SO305 The Family
- SO304 Culture and Personality
- SO319 Sociology of Sex Roles
- SO303 Race Relations
- GV322 The Contemporary Puerto Rican
- GV204 Education for Citizenship
- AN201 Cultural Anthropology
- AA302 The Black Family
- PY333 Interracial Group Experience

D. Afro-American Studies

- AA101 Introduction to Black Studies
- AA201 Black Biography
- AA204 African and Afro-American Music
- AA301 Black Institutions
- AA302 The Black Family
- AA303 Black Religion
- AA304 The Black Urban Experience
- H224 Black American History since 1890
- E416 or
E417 Black American Literature

All courses meet three hours each week for three semester hours unless otherwise indicated.

ED220 WORKSHOP IN URBAN EDUCATION

The purpose of this course is to involve the student early in his career in the total environment of the urban school. Students will spend one morning a week in the urban school serving as aides, tutors, clerical assistants, library assistants, or in other services essential to the functioning of the school. This experience will be followed by a seminar to help clarify learnings, values, and insights gained through the experiences. This seminar will also be used to acquaint the student with the community agencies—housing, welfare, recreation, etc.—which affect the life of the child. **Open to second semester freshmen and first semester sophomores only.**

ED323U PRINCIPLES AND METHODS IN URBAN EDUCATION

Prerequisite: ED220. Examines several topics of current concern in the practice of urban education. Analysis of the urban schools with emphasis on re-evaluating objectives, methodology and content. Offers the student additional insights and realistic understanding of the various forces and factors which operate within the urban schools. Classwork is accompanied by visits and discussions in an effort to expand concepts and experiences. Individual work will help the student formulate a position about urban education and elements of his anticipated role in urban education.

ED221 CURRICULUM IN THE URBAN SCHOOL

Prerequisite: ED220. Learning experiences will be provided in this course to help the student understand the basis for constructing curriculum based on the needs of the child in his particular urban environment. Various curricular organizational structures will be studied and followed by guided field experts to observe and evaluate current patterns. Curricular designs will include the study of open classroom, team approaches, individual instruction, programmed learning and differentiated staffing. Experience will be drawn from environmental setting. At the completion of this course, the student will gain competence in designing curriculum using many innovative and creative approaches which will be designed to help the child achieve in his particular environment.

ED311 COMMUNICATIVE ARTS, READING

The course is concerned with the teaching of reading at kindergarten and primary grade levels.

ED312 COMMUNICATIVE ARTS, LANGUAGE

The course deals with the teaching of language arts as creative tools of communication at the kindergarten and primary grade levels.

ED313-314 KINDERGARTEN-PRIMARY PRINCIPLES

This course develops lesson planning, unit construction, assignments, materials and curricula of kindergarten and each of the primary grades.

ED321 COMMUNICATIVE ARTS, READING

Prerequisite: ED323. The prime emphasis of the course will focus on the developmental nature of reading.

ED322 COMMUNICATIVE ARTS, LANGUAGE

Prerequisite: ED323. Listening, writing and speaking as areas of communication are the main emphasis of this course.

**ED323 PRINCIPLES AND CURRENT TECHNIQUES
OF TEACHING**

2C.L., 2S.H.

This course includes a study of the teaching-learning process, desired learning outcomes, and the guiding principles for effective planning and teaching in the elementary school. In addition there will be ample opportunity to observe and participate in the classrooms of the laboratory school.

ED328 SOCIAL STUDIES METHODS

2C.L., 2S.H.

Prerequisite: ED323. An examination of the methods and materials basic to carrying on a program in social studies in the Elementary grades.

ED329 SCIENCE METHODS

2C.L., 2S.H.

Prerequisite: ED323. An examination of the methods and materials basic to carrying on a program in science in the Elementary grades.

ED400 STUDENT TEACHING AND SEMINAR 12S.H.
A laboratory course of 16 weeks duration providing full-time student teaching in public schools. It is the responsibility of each student to fill out an application for Student Teaching placement by the end of the fifth term.

ED422 EDUCATIONAL MEASUREMENT 2C.L., 2S.H.
A survey of measurement and evaluation procedures as they apply to the day-by-day activities of the elementary school teacher.

ENGLISH

Richard S. Tyrell, Chairman

The Department of English offers to all students instruction in writing and speech, and introductory courses in British and American Literature. It further offers courses in linguistics and in literature, by period or type, from Chaucer to the present day.

The English composition requirement may be satisfied by the achievement of a score of 5, 4, or 3 in the Advanced Placement Test of the CEEB. If a student attains a grade of 4.0 in E101, he may begin the literature sequence in the second semester. All students must successfully complete E101-102, English Composition, before taking courses in literature. Students may satisfy the Speech requirement by passing a proficiency examination during the sophomore year or by completing E103.

The requirement for the B.A. or B.S. major concentration shall consist of thirty-six hours taken in the Department of English, exclusive of E101-102 English Composition. All students majoring in English must take the two semester survey of English Literature (E201-202) and the two semester survey of American Literature (E205-206). E433 is required of English majors in the teaching curricula; E434 is required of those in the non-teaching curricula and strongly recommended for those in the teaching curricula. The Department of English also recommends that students majoring in English study a modern language.

The requirement for the B.A. or B.S. minor concentration shall consist of twenty-one hours taken in the Department of English, exclusive of E101-102, English Composition. All students minoring in English must take the two semester survey of English Literature (E201-202) and five upper division electives selected with the approval of a departmental advisor.

Students are urged to consult departmental advisors before determining course selection.

All courses meet three hours each week for three semester hours unless otherwise indicated.

E101-102 ENGLISH COMPOSITION

The course includes a review of formal grammar, training in sentence structure and paragraph development, and instruction in the writing of expository themes. Assigned readings.

E201 MAJOR BRITISH WRITERS I

A study of major works by Chaucer, Shakespeare, Donne, Milton, Pope, and Swift.

E202 MAJOR BRITISH WRITERS II

A study of major works by Wordsworth, Keats, Tennyson, Browning, Yeats, and Eliot.

E203 MASTERPIECES OF WESTERN LITERATURE I

Readings and discussion of selected masterpieces of western literature from classical antiquity through the Renaissance.

E204 MASTERPIECES OF WESTERN LITERATURE II

The study of masterpieces of western literature from the Enlightenment through the twentieth century.

E205 AMERICAN WRITERS I

A study of American writers from the Colonial period to Whitman.

E206 AMERICAN WRITERS II

A study of American writers from Twain to the present.

E225 THE ENGLISH BIBLE

A survey of the literature of the Old and New Testaments with special attention to the genres and to the place of the Bible in English literature.

E301 SHAKESPEARE—THE TRAGEDIES

The tragedies of Shakespeare.

E302 SHAKESPEARE—COMEDIES AND HISTORIES

The comedies and history plays of Shakespeare.

E303 ROMANTIC POETRY

A study of the poetry of Blake, Wordsworth, Coleridge, Byron, Shelley, and Keats.

E305 NINETEENTH CENTURY PROSE I

A study of the novels of Austen, Scott, and Dickens, and the major works of Carlyle, Macaulay, and Mill.

E306 NINETEENTH CENTURY PROSE II

A study of the novels of Thackeray, George Eliot, Meredith, and Hardy, and the major prose works of Newman, Arnold, Stevenson, Ruskin, Morris, and Pater.

E307 MODERN DRAMA I

A study of major modern dramatists and their work starting with Ibsen.

E308 MODERN DRAMA II

A continuation of E307, with primary stress on more recent dramatists and trends in drama. E308 may be taken by students who have not taken E307, although E307 offers desirable preparation.

E310 MILTON

Horton poems; *Areopagitica* and other prose works; sonnets; *Paradise Lost*, *Paradise Regained*, *Samson Agonistes*.

E311 ENGLISH LITERATURE, 1660-1749

The major writers of the Restoration and Augustan periods, exclusive of Milton. Primary attention is paid to Dryden, Pope, and Swift.

E312 OLD AND MIDDLE ENGLISH LITERATURE

A study in translation of selected masterpieces in various genres from Anglo-Saxon time to 1500, exclusive of Chaucer. *Beowulf*, *Sir Gawain and the Green Knight*, *Piers Plowman*, Malory's *Morte d'Arthur* (in part), romances, ballads, lyric poems, plays.

E313 ENGLISH LITERATURE IN THE RENAISSANCE

A study of the major non-dramatic works of the sixteenth century with emphasis on Spenser, Shakespeare, Donne, and Jonson.

E314 LITERARY CRITICISM

A course in criticism intended primarily for majors in English and designed to acquaint them with the vocabulary of criticism through a diagnostic and topical approach to modes (heroic, tragic, lyric) and techniques (classicism, romanticism, symbolism, myth).

E315 CHAUCER I

A study of Chaucer's minor poetry and *Troilus and Criseyde* in the original language.

E316 CHAUCER II

A study of *The Canterbury Tales* in the original language.

E321 LITERATURE FOR CHILDREN

The aims of the course are to acquaint the students with the field of children's literature and to provide them with a standard of judgment for the evaluation of children's books.

E322 ADVANCED WRITING I

A course for students interested in doing considerable advanced expository and creative writing. The course includes reading in contemporary and classical works.

E323 ADVANCED WRITING II

Prerequisite: E322. Advanced expository and creative writing.

E330 THE ENGLISH NOVEL, 1722-1816

A study of the English novel as it developed between Daniel DeFoe's *Moll Flanders* and Walter Scott's *Old Mortality*. The course includes novels by Samuel Richardson, Henry Fielding, Tobias Smollett, Laurence Sterne, Horace Walpole and Jane Austen.

E340 APPLIED LINGUISTICS

A review of the recent developments in linguistic theory and their practical relevance to the field of English.

E350 PRINCIPLES OF DRAMATIC PRODUCTION

A study of representative plays from the major theatrical periods, focusing on the play in production as living theatre rather than as literature.

E402 THE AGE OF JOHNSON

A study of major works of English literature written during the second half of the eighteenth century.

E403 EMERSON, THOREAU, AND TRANSCENDENTALISM

A study of American romantic idealists. In a broader sense, the course undertakes a study of the social and intellectual movements of the first half of the nineteenth century.

E404 VICTORIAN POETRY

A study of the poetry of Tennyson, Browning, Arnold, the Rossettis, Morris, Swinburne, Meredith, Hardy and Hopkins.

E406 THE MODERN NOVEL

The course includes an analysis of the novel as an art form, a survey of the novel in English and American literature, and the reading of ten notable modern novels.

E407 MODERN SHORT STORY

A study of selected American and British short stories.

E408 HAWTHORNE, MELVILLE, AND JAMES

A course of reading and discussion of the major works of these writers.

E410 ENGLISH DRAMA, EXCLUSIVE OF SHAKESPEARE, 1580-1642

A reading of major dramas of the Elizabethan and Jacobean periods.

E411 ENGLISH LITERATURE, 1600-1660

The major writers of the period exclusive of the dramatists.

E412 RESTORATION DRAMA

A reading of major dramas of the Restoration period, 1660-1700.

E415 MODERN IRISH WRITERS

A study of the poetry, plays, and fiction of major and minor writers from Yeats to Devlin.

E416 BLACK AMERICAN LITERATURE I

A study of major works of Black American Literature from slavery to the Harlem Renaissance comprise this course. It will include folk tales and slave narratives.

E417 BLACK AMERICAN LITERATURE II

A study of the major works of Black American Literature from the Harlem Renaissance to contemporary writings from Langston Hughes to Don L. Lee.

E419 FOLKLORE

An introductory study of the major forms of folklore including the folktale, myth, folksong, riddle, superstition, proverb, and children's folklore. Current theoretical trends in folklore will also be considered. Readings will be in English from selected international folk sources.

E420 ANGLO-AMERICAN BALLAD AND FOLKSONG

A survey of the scholarship in ballad and folksong studies from the nineteenth century to the present. Field trips and classroom mini-concerts.

E422 TWAIN, HOWELLS, AND THE RISE OF REALISM

Twain's chief works. A consideration of his defender in Boston, W. D. Howells. The realists and naturalists: Garland, Crane, Norris, London.

E425 EARLY AMERICAN LITERATURE

A survey of selected writers and movements of thought in the Colonial period.

E427 CONTEMPORARY POETRY I

This course will consist of a study of major poets beginning with the early work of Ezra Pound and continuing approximately to the poets of the fifties. Representative figures of each major movement during this span of time will be covered.

E428 CONTEMPORARY POETRY II (formerly E413)

A reading of selected contemporary poets, American and British.

E433 THE STRUCTURE OF THE ENGLISH LANGUAGE

A course in the grammatical, morphological, and syntactical structure of the English language.

E434 THE HISTORY OF THE ENGLISH LANGUAGE

A course in the historical development of the English language. Illustrative readings from its various periods.

E490 SPECIAL TOPICS IN ENGLISH

Research seminar. Required of candidates for honors in English during the second semester of the junior year.

E492 SENIOR SEMINAR

Topics in twentieth-century American fiction. An intensive study of selected authors and topics reflective of the contemporary scene. **Reports will be given and conferences held.**

E495 STANDING SEMINAR

An upperclass seminar open to English majors who have successfully completed E201-202 and E205-206 (petitions to waive these course requirements must be submitted in writing to both the Chairman of the English Department and the professor offering the seminar). Topic, instructor, and specific prerequisites will be announced by the mid-point of the preceding semester. Students are limited to *two* E495 seminars taken for credit. Meets twice a week: two hours at one meeting and one hour at the other.

Speech and Communications

Courses in speech and communications are offered by the Department of English. The following courses are designed to provide students with practical training in oral and written communication and are of value not only to prospective teachers and speakers, but also to those whose future occupations may include writing of a commercial, as distinct from literary, nature.

E103 EFFECTIVE SPEECH

2C.L., 2S.H.

A performance course offering training for short talks, demonstrations and discussions. This is a required* course for all Education students as well as for all undergraduates who have entered the college since September 1969 or thereafter. All students in these categories are urged to register for and complete this course as soon as possible.

*Please note: The speech requirement may be met, preferably in the sophomore year, by successfully passing a speech proficiency examination given by the speech faculty in the fall semester. To be eligible for this examination, the student must register for the E103 "Test Only" section. The effective speech test consists of two parts: one written and the other oral. The written section—given at a group meeting early in the semester—will test the student's knowledge of the speaking process, the types of public speeches and effective delivery skills. The oral section will provide a test of the student's ability to read aloud and to speak.

Any student who does not complete the test successfully must complete the effective speech course. Students passing the test will be rated P with no credit hours given; students taking the course will receive two credit hours.

E104 ORAL INTERPRETATION

This is essentially a study of various forms of literature to help students learn meaningful expression of prose, poetry, and drama through oral communications. Intensive work included in the basic principles of voice and diction through exercise, tape recordings and assigned readings. Special relevance to English Education majors.

E210 WRITING LABORATORY

Preparation of weekly short papers or scripts, to be read and evaluated in class. These shorter forms of writing will embrace the straight news story, the feature, the interview, the editorial, the critical review, and advertising copy. **Open to Juniors and Seniors only.**

E215 PRINCIPLES OF GROUP DISCUSSION

Study and application of the major forms of group-centered discussion, stressing those types with learning goals and relevant problem-topics. Analysis of verbal and non-verbal interaction is included.

FOREIGN LANGUAGES

Richard W. Newman, Ph.D., Chairman

Courses in French, German, Italian and Spanish, offered by the Department of Foreign Languages, are designed to meet the needs of three classes of students: (a) Those who wish to fulfill the foreign language requirement for the B.A. degree; (b) Those who wish to take foreign languages for general cultural purposes; and (c) Those who wish to major or minor in a foreign language. At present, no major or minor is being offered in Italian. The curriculum, both for those preparing to become teachers and for those intending to pursue graduate studies, is designed to give students an active command of their major language and a broad insight into the corresponding literature and culture. There are many promising careers for foreign language majors in education, business, industry and government.

The Department also offers courses in both theoretical and applied linguistics. Theoretical linguistics, offered as a general cultural elective, is especially recommended to English and Foreign Language majors. Applied linguistics courses are offered in each of the major languages. For foreign students a special course in English as a Foreign Language is offered. In addition to a course in the Teaching of Foreign Languages in the Secondary School, special courses are offered in the methodology of Foreign Languages in the Elementary School (FLES), Bilingual Education, and English as a Second Language (ESL).

Foreign Language Requirement for the Bachelor of Arts Degree

Candidates for the degree of Bachelor of Arts may satisfy the foreign language requirement by the successful completion of a course conducted in the foreign language at the advanced level (131-132) or above or by the successful completion of two years' work in one language at college level.

Examples of course combinations satisfying the foreign language requirement for the B.A. degree are:

1. LS111-112 (Elementary Spanish) and LS121-122 (Intermediate Spanish); four courses, 12 semester hours.

2. LG131-132 (Advanced German); two courses, 6 semester hours.

3. LF121-122 (Intermediate French) and LF131-132 (Advanced French); four courses, 12 semester hours.

4. LI111-112 (Elementary Italian) and LI121-122 (Intermediate Italian); four courses, 12 semester hours.

The foreign language requirement for the B.A. degree may also be met by receiving a score of 575 or above in a foreign language achievement test of the CEEB.

Requirements for Majors

Language majors must complete 30 semester hours in their major language. The following courses are required of all majors:

6 S.H. Composition and Conversation (311-312)

3 S.H. Spoken (424)

9 S.H. Three (3) Literature courses

3 S.H. Civilization course.

Teacher preparation candidates must elect LL314, Applied Linguistics, and ED336L, Methods of Teaching Modern Languages in the Secondary School. Non-teaching majors must elect 490, Seminar. The MLA Cooperative Foreign Language Proficiency Tests are required of all majors and will be administered in the Department. Prospective foreign language majors should consult with the Department Chairman.

Requirements for Minors

Language minors must complete 21 semester hours in their minor language. Course selections should be made with the advice of the Chairman of the Foreign Language Department and the student's advisor in his own major Department.

All courses meet three hours each week for three semester hours unless otherwise indicated.

FRENCH

LF111-112 ELEMENTARY FRENCH

Development of basic skills: aural comprehension, oral and written composition, reading ability. **Language laboratory.**

LF121-122 INTERMEDIATE FRENCH

Grammar review, oral practice, extensive reading, simple written composition. **Language laboratory.**

The preceding courses may be elected, with special permission of the Department Chairman, on an individualized basis.

NOTE: ANY 2 COURSES CONDUCTED IN FRENCH (6 SEMESTER HOURS) ABOVE THIS LEVEL SATISFY FOREIGN LANGUAGE REQUIREMENT FOR B.A. DEGREE.

LF131-132 ADVANCED FRENCH

Continued development of aural and oral skills, written composition. Reading of contemporary literary texts. **Language laboratory.**

LF142 DEVELOPMENT OF READING SKILLS IN FRENCH

The course aims at development of reading ability through the study of French construction and idioms, identification of tense and verb form, and building of vocabulary reading in prose and poetry. **Conducted in French.**

LF201 MASTERPIECES OF FRENCH LITERATURE IN TRANSLATION I

Highlights of French literature through the eighteenth century including the Song of Roland, Villon, Rabelais, Moliere, Corneille, Racine, Voltaire and Rousseau. **Conducted in English.**

LF202 MASTERPIECES OF FRENCH LITERATURE IN TRANSLATION II

Highlights of French literature in the nineteenth and twentieth centuries, including Lamertone, Musset, Balzac, Flaubert, Baudelaire, Gide, Sartre, Camus, Becket. **Conducted in English.**

LF301 LE CONTE ET LA NOUVELLE

A study of the short story in French literature from the Middle Ages to the present day with special attention to the evolution of this genre and its correlation with the literary movements of the periods included. Lectures, discussions, readings, and reports. **Conducted in French.**

LF302 THE VOICES OF THE FRENCH SPEAKING WORLD

Study of the work of representative authors from Canada, Belgium, French Speaking Africa, Haiti, etc. Lectures, discussions, readings, and reports. **Conducted in French.**

LF303 FRENCH FABLES AND TALES FOR YOUNG AND OLD

Study of literary texts as a basis for developing better command of grammatical patterns, vocabulary building and improved pronunciation. Lectures, discussions, readings, and reports. **Language laboratory. Conducted in French.**

**LF304 THE REBEL AND THE REVOLUTIONARY HERO IN
FRENCH LITERATURE**

Unsung and all too often unknown, the tragic saga of the Rebel who dares challenge the century-old alliance of the secular Trinity—Church-Society-Tradition—will be studied throughout French literature from the Middle Ages to the present. Special emphasis will be placed on the political and philosophical trends which are the forerunners of present day libertarianism and liberalism. Lectures, discussions, readings, and reports. **Conducted in French.**

LF305 SARTRE AND CAMUS

An in-depth study of the two best-known representatives of the Existentialist movement in France. The major works of both writers will be read, discussed and analyzed. Lectures, discussions, readings, and reports. **Conducted in French.**

LF311-312 FRENCH COMPOSITION AND CONVERSATION

Training in rapid and idiomatic French speech and writing.

LF411 ADVANCED FRENCH COMPOSITION AND STYLISTICS

Introduction to the problems of style and a study of selected grammatical topics. **Translations to and from French.**

LF421 FRENCH CIVILIZATION

The course includes the necessary background in history, geography, social institutions and culture for the advanced French student. **Conducted in French.**

LF424-425 SPOKEN FRENCH

Discussion and oral reports in French on topics of cultural significance and general interest.

LF490 SEMINAR IN FRENCH

With consent of chairman. Special topics of literary research.

2C.L.

GERMAN

LG111-112 ELEMENTARY GERMAN

Development of basic skills: aural comprehension, oral and written composition, reading ability. **Language laboratory.**

LG113-114 SCIENTIFIC GERMAN READING

Training in reading and comprehending scientific texts. Suitable for students majoring in natural and social sciences.

LG121-122 INTERMEDIATE GERMAN

Grammar review, oral practice, extensive reading, simple written composition. **Language laboratory.**

The preceding courses may be elected with special permission of the Department Chairman, on an individualized basis.

NOTE: ANY 2 COURSES CONDUCTED IN GERMAN (6 SEMESTER HOURS) ABOVE THIS LEVEL SATISFY FOREIGN LANGUAGE REQUIREMENT FOR B.A. DEGREE.

LG131-132 ADVANCED GERMAN

Continued development of aural and oral skills, written composition. Reading of contemporary literary texts. **Language laboratory.**

LG201 MASTERPIECES OF GERMAN LITERATURE IN TRANSLATION I

A study of major works by Worfram von Eschenbach, Goethe, Schiller, Kleist, Buechner and Nietzsche. **Conducted in English.**

LG202 MASTERPIECES OF GERMAN LITERATURE IN TRANSLATION II
A study of major works by Kafka, Mann, Brecht, Hesse, Grass and Frisch. Conducted in English.

LG311-312 GERMAN COMPOSITION AND CONVERSATION
Training in rapid and idiomatic German speech and writing.

LG322 GERMAN LITERATURE OF THE EIGHTEENTH CENTURY
A study of the Classical period with special emphasis given to novel and drama. Lectures, discussions, readings, and reports. Conducted in German.

LG331 GERMAN LITERATURE OF THE NINETEENTH CENTURY
A study of the novel, drama, lyric poetry and novelle of the Romantic and Realist periods. Lectures, discussions, readings, and reports. Conducted in German.

LG332 GERMAN LITERATURE OF THE TWENTIETH CENTURY
The course includes a study of the movie, drama, and lyric poetry of the contemporary period. Lectures, discussions, readings, and reports. Conducted in German.

LG406 THE MODERN GERMAN NOVEL
The modern German novels of Hermann Hesse, Thomas Mann, Franz Kafka, and Gunter Grass in English translation. Conducted in English.

LG422 GERMAN CIVILIZATION
A study of German history, geography, social institutions and contemporary German culture. Conducted in German.

LG424 SPOKEN GERMAN
Discussions and oral reports in German on topics of cultural significance and general interest.

LG490 SEMINAR IN GERMAN 2C.L.
With consent of chairman. Special topics of literary research.

ITALIAN

LI111-112 ELEMENTARY ITALIAN
Development of basic skills: aural comprehension, oral and written composition, reading ability. Language laboratory.

LI121-122 INTERMEDIATE ITALIAN
Grammar review, oral practice, extensive reading, simple written composition. Language laboratory.

NOTE: ANY 2 COURSES CONDUCTED IN ITALIAN (6 SEMESTER HOURS) ABOVE THIS LEVEL SATISFY FOREIGN LANGUAGE REQUIREMENT FOR B.A. DEGREE.

LI131-132 ADVANCED ITALIAN
Continued development of aural and oral skills, written composition. Reading of contemporary literary texts. Language laboratory.

LI311-312 ITALIAN COMPOSITION AND CONVERSATION
Training in rapid and idiomatic Italian speech and writing.

LINGUISTICS

LL111 INTRODUCTION TO LINGUISTICS

The nature and origin of language. Language and grammar. The history of linguistics and its new directions. Principles of language analysis: phonetics, phonemics, morphology and syntax.

LL310 ENGLISH AS A FOREIGN LANGUAGE

Designed for non-native speakers of English in order to further their oral and written skills in English.

LL314 APPLIED LINGUISTICS

Linguistic analysis of the phonology, morphology, and syntax of English and a systematic comparison of its structures with French, German, and Spanish.

METHODOLOGY IN SECOND LANGUAGE

ED336L METHODS OF TEACHING MODERN LANGUAGES IN THE SECONDARY SCHOOL

See description under Secondary Education.

ED430 STUDENT TEACHING AND SEMINAR

See description under Secondary Education.

LM110 METHODOLOGY AND PRACTICES IN FLES AND BILINGUAL

Introduction to the teaching of Foreign Languages in the Elementary School and the teaching of subject matter to students whose primary language is Spanish.

LM210 METHODOLOGY AND PRACTICE IN ESL

This course gives prospective teachers in urban centers the practice of teaching English to non-English speakers. A brief study of second language learning and realistic observation and participation in community classrooms.

SPANISH

LS111-112 ELEMENTARY SPANISH

Elementary conversational language practice, basic grammar patterns with development of basic skills. The student is also introduced to the Hispanic way of life through class discussions. **Language laboratory.**

LS121-122 INTERMEDIATE SPANISH

To facilitate communication within the urban setting. Oral practice, review of Spanish grammar. Lively, contemporary short story readings and occasional field trips. **Language laboratory.**

The preceding courses may be elected, with special permission of the Department Chairman, on an individualized basis.

NOTE: ANY 2 COURSES CONDUCTED IN SPANISH (6 SEMESTER HOURS) ABOVE THIS LEVEL SATISFY THE FOREIGN LANGUAGE REQUIREMENT FOR B.A. DEGREE.

LS131-132 ADVANCED SPANISH

Continued development of aural and oral skills, written composition. Reading of contemporary literary texts. **Language laboratory.**

LS142 DEVELOPMENT OF READING SKILLS IN SPANISH

Techniques for examining and appreciating literary texts.

LS201 MASTERPIECES OF SPANISH LITERATURE IN TRANSLATION I

Courage, passion, ideals, intrigue in the literary portraits of El Cid, La Celestina, Lazarillo, Don Quijote and Don Juan.

LS202 MASTERPIECES OF SPANISH LITERATURE IN TRANSLATION II

The anguish of nineteenth and twentieth century Spain portrayed by such authors as Bécquer, Galdós, Unamuno, Valle-Inclán, García Lorca, Juan Ramón Jiménez, Cela and Ramón Sender.

LS301 THE DON JUAN TRADITION IN HISPANIC LITERATURE

A study of the various works exemplifying the Don Juan theme from Tirso de Molina to the present. Lectures, discussions, readings, and reports. Conducted in Spanish.

LS302 PROSE WRITERS OF SPANISH LITERATURE

A study of the major prose writers in Spanish literature from the Middle Ages to our day. Lectures, discussions, readings, and reports. Conducted in Spanish.

LS303 THE LYRIC TRADITION IN HISPANIC LITERATURE

A panoramic view of the evolution of the lyric tradition in Spain and Spanish America. Lectures, discussions, readings, and reports. Conducted in Spanish.

LS304 THE CONTEMPORARY HISPANIC THEATER

A reading of selected works that illustrate the latest trends in the Hispanic Theater. Lectures, discussions, readings, and reports. Conducted in Spanish.

LS305 SPANISH-AMERICAN LITERATURE

Representative readings from the colonial period to the present. Lectures, discussions, readings, and reports. Conducted in Spanish.

LS311-312 SPANISH COMPOSITION AND CONVERSATION

Training in rapid and idiomatic Spanish speech and writing.

LS411 ADVANCED SPANISH COMPOSITION AND STYLISTICS

Introduction to the problems of style and a study of selected grammatical topics. Translations to and from Spanish.

LS422 HISPANIC CIVILIZATION

A study of Spanish history, geography, social institutions and contemporary Hispanic culture. Conducted in Spanish.

LS423 SPANISH-AMERICAN CIVILIZATION

A study of the history, geography, social institutions and contemporary culture of the Spanish-American republics. Conducted in Spanish.

LS424-425 SPOKEN SPANISH

Discussion and oral reports in Spanish on topics of cultural significance and general interest.

LS490 SEMINAR IN SPANISH

With consent of chairman. Special topics of literary research.

2C.L.

GEOGRAPHY

Michael G. Mensoian, Jr., Ph.D., Chairman

Geography, as an academic and research discipline, has long been concerned with environmental problems. Bridging, as it does, both the social sciences and the natural sciences, geography focuses its attention not only on man but upon the processes and interrelationships which combine to form the natural environment.

Geography, with its interdisciplinary approach, allows flexibility in formulating a meaningful program of study. Basic areas of academic and research interests, as well as professional training, are available. These are:

- a. Environmental Studies
- b. Regional Studies
- c. Urban Studies
- d. Teacher Preparation

Students electing to major or minor are expected to select one of the above areas of concentration around which their course work will be developed. Of the 30-36 hours required by the college for the major (18-21 for the minor), minimum course requirements within the Department are:

- G301 Environmental Systems
- G302 Culture Systems
- G404 Seminar (majors only)

The Department encourages the taking of course work in related departments whenever it is deemed relevant to the student's objectives.

For those students whose interests are in the physical environment, the Department offers the opportunity to major or minor in its Earth Science program. In this program, students are expected to complete the following minimal requirements:

- G101-102 Physical and Historical Geology
- G201-202 Oceanography
- G406 Weather and Climate
- G404 Seminar

One year sequence in an approved course in Physics (P301-302) or Chemistry (CH101-102).

A minor in Earth Science may be obtained by completing 21 hours of courses approved by the Chairman.

For the student interested in the teaching of Geography or Earth Science, the student is expected to major in either field. The following requirements are necessary in order to graduate with a teaching degree:

- ED336G The Teaching of Geography and Earth Science
- ED430G Student Teaching in Geography/Earth Science and Seminar

In addition the Department is responsible for the development and administration of the programs in:

- a. Latin American Studies
- b. Metropolitan Studies

Students interested in any of the programs offered by the department are advised to consult with the Chairman of the Department and to read the departmental bulletins to insure formulation of an academic program which will develop the student's interests.

All courses meet three hours each week for three semester hours unless otherwise indicated.

G101 PHYSICAL GEOLOGY 3C.L., 2L., 4S.H.

Introduction to the study of the earth, its composition, development, and destruction in relation to natural processes. Laboratory work includes investigation of rocks and minerals, geologic and topographic map analysis.

G102 HISTORICAL GEOLOGY 3C.L., 2L., 4S.H.

Historical development of continents and ocean basins, development of life, classification of fossil animals and plants.

G201 OCEANOGRAPHY I

A correlation of the geographical, geological, physical, chemical and biological aspects of the sea. This course explores the historical, geological and physical aspects.

G202 OCEANOGRAPHY II

The biological, geographical and recreational aspects of the sea will be explored. The fertile areas of the sea, favorable conditions for life in the sea, plankton invertebrate life, life on the bottom, fishes, mammals, the economic importance of the fishing industry to Massachusetts, the recreational facilities and the future uses of the sea will be discussed.

G203 COASTAL GEOMORPHOLOGY

Prerequisite: G201. A course designed to teach the student the classification, process, features and mapping of coastlines. Emphasis will be placed on local shorelines.

G204 COASTAL CLIMATOLOGY

Prerequisite: G301 or G406. This course will study the classification of climate, the ocean-atmosphere relationships, the specific effect of the ocean on the climate of Massachusetts, as well as local research topics.

G301 ENVIRONMENTAL SYSTEMS

This course will develop an understanding and appreciation of man's natural environment. Utilization of the tools of geographic inquiry will be stressed through identification and evaluation of current environmental conditions and problems.

G302 CULTURE SYSTEMS

This course will consider man within the context of his culture in space and time. His reciprocal relationship with the natural environment will be examined in terms of landscape development, environmental use, and cultural change.

G303 REGIONAL GEOGRAPHY OF ANGLO-AMERICA

This course is a regional study of the physical, cultural, political, and economic environment of the peoples of Anglo-America. The study will stress relationships that exist between these regions and other important world areas.

G304 REGIONAL GEOGRAPHY OF LATIN AMERICA

A regional study of Middle America and South America. Emphasis is upon the physical environment and the cultural, economic, and political conditions that exist and are in the process of development.

G305 REGIONAL GEOGRAPHY OF EUROPE

The physical, cultural, political, and economic features of the European subcontinent are described in the first part of this course. Regional similarities and differences and Europe's place in the modern world will be analyzed in the latter part.

G308 GEOGRAPHY OF THE MIDDLE EAST AND NORTHERN AFRICA

This course will consider the cultural and physical characteristics of those countries extending from Mauritania-Morocco to Afghanistan. Emphasis will be placed on the historical development and Arabization of the region, strategic significance, and current socio-economic problems.

G309 BIOGEOGRAPHY

An ecological perspective of the environmental relationships of living organisms: their origin, distribution, evolution, adaptation and association.

G310 GEOGRAPHY OF UNDERDEVELOPED NATIONS

This course will classify and evaluate the physical and cultural resource potential of the world's underdeveloped nations.

G311 REGIONAL GEOGRAPHY OF SOUTH AND EAST ASIA

This course provides a survey of the physical, cultural, and economic origins of Asia. This background is then utilized to provide an understanding of the major social, economic and political problems facing this continent.

G315 GEOMORPHOLOGY

Prerequisite: G101 or G102. An in-depth study of the surface features of the earth with emphasis placed on the New England geomorphology.

G316 GEOLOGY OF NORTH AMERICA

Prerequisite: G101 or G301. A general survey of each province of North America, including the geomorphology, structure, and human environment of each region.

G317 MINERALOGY

2C.L., 4L., 4S.H.

Prerequisite: G101. This course deals with concepts, descriptions and determinative procedures in Mineralogy. Basic concepts in crystallography, mineral classification, chemical mineralogy and specific rock-forming, mineral associations are presented.

G318 PETROLOGY

2C.L., 4L., 4S.H.

Prerequisites: G101, G317. Familiarity with the characteristics of sedimentary, igneous and metamorphic rocks is the primary purpose of this course. The physical and chemical environment in which a rock is formed and exists will be examined so that the student may acquire a better understanding of the earth's history. Instruction in Petrologic Field procedures will be an integral part of the course.

G320 POPULATION GEOGRAPHY

Prerequisite: G302. This course will acquaint the student with the basic principles underlying the distribution of man in the world. The impact of economic, social and political factors on the density, composition, migration and other significant aspects of population will be studied. Its relationship with other social sciences will be examined.

G321 GEOGRAPHY OF INTERNATIONAL TRADE

Prerequisite: G302. With Boston's international trade as the starting point, the course will proceed into the analysis of the direction, value and structure of the major exports and imports in the international markets. Emphasis will be placed on measuring and locating the magnitude of economic dependence of different countries upon their international trade and trade-partners.

G322 GEOGRAPHY OF MANUFACTURING

Prerequisite: G302. This course will concentrate on various criteria to evaluate the variety and magnitude of manufacturing industries. Emphasis will be placed on studying the industrial geography of Anglo-America especially and the world generally.

G401 POLITICAL GEOGRAPHY

The influence of the geographic factors—physical and cultural—upon the development of states and their external relations. The geographic basis of power, internal and international tensions, and major writings in the field will be considered.

G402 WORLD ECONOMIC GEOGRAPHY

The relationships that exist between the physical environment and human activities. The geography of commerce, industry, agriculture, natural resources and conservation will be presented by utilizing selected regions for study.

G403 URBAN GEOGRAPHY

A study of the influence of geographic factors in urban areas and distribution of economic activities within the urban complex. Problems of suburban growth and development, metropolitan problems and planning will also be discussed.

G404 SEMINAR

A study of the philosophy and research developments within the discipline.

G405 CARTOGRAPHY

The art and science of the presentation of earth patterns in the mediums of maps, models, cartograms and other cartographic devices. Laboratory exercises introducing basic projections, symbolism, handling of cartographic tools, lettering techniques, and fine drawing.

G406 WEATHER AND CLIMATE

The elements of weather, temperature, pressure, and moisture will be studied in detail. Correct usage of weather equipment is involved in the course. After the study of weather, the knowledge is applied to climates of the world.

G407 URBAN ECONOMIC LAND USE

Prerequisite: G402 or G403. The theoretical aspect of the size and spacing of cities, then functional base, urban-industrial growth, internal structure, and the development of retail and industrial areas.

G408 PROBLEMS IN LATIN AMERICA

This course will combine lectures and independent student research and presentation on relevant geographic, socio-economic, and demographic problems experienced by Latin American countries.

G410 REGIONAL PLANNING AND DEVELOPMENT

Prerequisite: G301 or G407. This course will examine the geographical theories and problems involved in the spatial development of a region.

G411 URBAN PLANNING

Prerequisite: G403. The historical and contemporary practices in city planning and development of methodology and techniques for analysis of today's planning.

G430 FIELD WORK—RESEARCH METHODOLOGY

Prerequisites: G101-102 or G301-302. This course is designed principally to increase the student's awareness of the advancements being made in the discipline, formulation of problems, hypothesis, measurements and models. Opportunity for field work is provided.

G490 SPECIAL TOPICS

A course stressing research topics within the discipline.

G492 SEMINAR IN METROPOLITAN STUDIES I

The objectives of this course will be to define, evaluate and analyze, by an in-depth study, problem areas within the Metropolitan Community. Utilization of the Metropolitan Studies program staff will provide an interdisciplinary approach to selected problem areas; community leaders will serve as guest lecturers.

G493 SEMINAR IN METROPOLITAN STUDIES II

A continuation of G492. Research papers pertaining to the student's area of interest and pertinent to selected problem areas will be written under the direction of staff members in the Metropolitan Studies Program. Research papers will be presented and defended before the seminar students and faculty.

**ED336G METHODS OF TEACHING GEOGRAPHY AND EARTH
SCIENCE IN THE SECONDARY SCHOOLS 2C.L., 2L., 3S.H.**

Prerequisite: ED333 or ED240. Emphasis will be placed upon ESCP and Project Geography materials and methods as well as innovations and recent developments.

ED430G STUDENT TEACHING AND SEMINAR 6S.H.

Prerequisites: PY310, PY231, ED333 or ED240, ED336. A laboratory course of eight weeks' duration providing full-time student teaching in public secondary schools. The seminar is concerned with fresh topics such as professional ethics, school records, securing a teaching position, current trends in education, and in-service professional growth.

LATIN AMERICAN STUDIES

Michael G. Mensoian, Ph.D., Director

The Latin American Studies program is an interdisciplinary major leading to either the B.A. or B.S. degree. Majors are required to complete thirty-three (33) semester hours of interdepartmental course work. The program is offered under the auspices of the Geography Department.

Required courses include:

- G304 Regional Geography of Latin America
- G408 Problems in Latin America
- H205 History of Latin America to 1825
- H206 History of Latin America Since 1825
- LS111-112 Elementary Spanish
- LS121-122 Intermediate Spanish

Successful completion of LS131-132 or superior performance on the achievement test of the CEEB may be offered in place of LS111-112 and 121-122.

Recommended electives include:

- AN201 Cultural Anthropology
- AN211 Indians of South America
- EC205 Economic Development
- EC401 Comparative Economics
- G310 Geography of Underdeveloped Nations
- G401 Political Geography
- GV309 Communist Behavior in World Affairs
- GV313 Politics of Developing Areas
- GV324 Regional Organization
- LS305 Spanish-American Literature
- LS423 Spanish-American Civilization

Students wishing to elect other courses relating to their special objectives or desiring more information concerning the program should consult with Dr. Mensoian, Department of Geography, Room 310K.

METROPOLITAN STUDIES

Michael G. Mensoian, Ph.D., Director

This area of concentration is designed, using an interdisciplinary approach, to acquaint the student with the urban world and prepare him for beginning a career in the urban field whether it be planning, administration or social services. The program is offered under the auspices of the Geography Department.

Major: 36 hours of which 18 are core requirements and 18 are selected from other disciplines with the guidance of the Program Director. Although considerable leeway is allowed in selecting the final 18 hours of their major work, students should look for more than just a collection of courses. At least one course should be selected from each of the following groups, but additional selections should be made in relation to a related minor.

Minor: 18 hours consisting of the core requirements. Minors may substitute one or two related courses with the Program Director's guidance.

Core Requirements (18 hours)

G403	Urban Geography
G407	Urban Economic Land Use
G410	Regional Planning and Development
G411	Urban Planning
G492	Seminar in Metropolitan Studies I
G493	Seminar in Metropolitan Studies II

Interdisciplinary Selection (18 hours)

Group I: Sociology

*SO201	Introduction to Sociology
SO206	Social Welfare
SO303	Race Relations
SO306	The Community
SO307	Urban Sociology (recommended)
SO402	Social Problems

Group II: Political Science

*GV101	American Government
GV302	Massachusetts Government
GV310	Urban Government (recommended)
GV316	Public Administration (recommended)
GV322	The Contemporary Puerto Rican

Group III: Economics, History and Art

*EC101	Principles of Economics I
EC102	Principles of Economics II (prerequisite: EC101)
EC402	Urban Economic Problems (prerequisite: EC102)
H318	History of the American City
A206	American Architecture (1600-1850)

Group IV: Research Techniques

G405	Cartography
M111	Introduction to Computer Science I
M112	Introduction to Computer Science II
*M109	Mathematical Analysis I
M110	Mathematical Analysis II (prerequisite: M109)
PY103	Introduction to Statistics

*Those courses which fulfill general education requirements.

HISTORY

John C. Weston, Ph.D., Chairman

The department of History offers programs for major concentration for the B.A. and B.S. degrees in History. History majors are required to take H101 and H102 or one of its equivalents: H103-104 or H105-106. However, no more than one six semester hour course sequence on the 100 level may be taken for credit as a history major or minor. A History major must also take H201-202 and a minimum of 24 elective hours in history. The department recommends that majors in History elect one of the historiography courses.

History minors are required to take H101-102 (or its equivalent), H201-202, and 9 elective hours in history.

The department of History participates in the Honors Program, and recommends to those properly certified, membership in the national historical society of Phi Alpha Theta—Mu Iota Chapter.

All courses meet three hours each week for three semester hours unless otherwise indicated.

H101 WESTERN CIVILIZATION I

The course will extend from approximately 500 B.C. to 1715. It will treat topics such as Classical Greece, the rise and fall of ancient Rome, the growth of Christianity, medieval feudalism, the Renaissance, the Reformation, the age of discovery, and the new monarchies.

H102 WESTERN CIVILIZATION II

The course will extend from approximately 1715 to the present. It will treat topics such as the scientific and intellectual revolution, the Enlightenment, the industrial revolution, various nineteenth century "ism," the First World War, the Russian Revolution, Fascism, World War II and thereafter.

H103 HISTORY OF IDEAS I

An analysis of several major works which helped shape the mind of the West before 1550. Each instructor's course outline and reading list will be available in the history department before registration.

H104 HISTORY OF IDEAS II

An analysis of several major works which have helped shape the mind of the West since 1550. Each instructor's course outline and reading list will be available in the history department before registration.

H105 WORLD HISTORY I

Selected topics in the early history of Africa, Asia, and Europe. Each instructor's course outline and reading list will be available in the history department before registration.

H106 WORLD HISTORY II

Selected topics in the history of modern Africa, Asia, and Europe. Each instructor's course outline and reading list will be available in the history department before registration.

H107 SURVEY OF ANCIENT CIVILIZATION TO 600 B.C.

Civilization's birth and progress in Mesopotamia, Egypt, Canaan, Minoan Crete, Homeric Greece, emphasizing the role of cities. Social, intellectual life seen through literary, religious sources. Extensive slides stressing art, archaeological digs.

H201 AMERICAN HISTORY TO 1865

The course will focus on selected topics from the colonial period through the Civil War.

H202 AMERICAN HISTORY SINCE 1865

The course will focus on selected topics from Reconstruction to the present.

H203 HISTORY OF ENGLAND TO 1689

The Anglo-Saxon period, the Anglo-Norman fusion, the development of law and parliament, the rise of the Tudors, seventeenth century monarchy and revolutions.

H204 HISTORY OF ENGLAND FROM 1689

The late Stuart and Georgian politics; the industrial revolution; the rise of British empire; nineteenth century conservative and liberal politics and ideas; social, imperial, and intellectual change to 1939.

H205 HISTORY OF LATIN AMERICA TO 1825

Main focus on the aboriginal American and Spanish background, the conquest and development of colonial Spanish America. Emphasis on social and intellectual growth.

H206 HISTORY OF LATIN AMERICA SINCE 1825

A study of the emerging nations of Latin America after independence: the growth of dictatorships, of Indianism, the social and intellectual forces shaping present-day Latin America, especially Argentina, Brazil, Mexico and Peru.

H207 AMERICAN COLONIAL HISTORY

The interrelationships between Europe and British North America from discovery to 1763, and the development of the early American economy, society, and institutions.

H208 AMERICAN REVOLUTION AND CONSTITUTION

Analyzing the break-up of the British colonial system, this course describes the Revolution and the creation of a new nation and federal government, 1763-1790.

H209 THE FEDERALIST ERA: 1790-1815

Centers about the formative years under the United States Constitution, with emphasis on policies encouraged by Hamilton and the early political parties of the Federalists and the Republicans.

H210 THE RENAISSANCE AND THE REFORMATION

The political, literary, and artistic phases of the Renaissance and an examination of the religious aspects of the Reformation.

H211 THE EIGHTEENTH CENTURY

This course is concerned with the eighteenth century's attempt to understand man and his struggle to achieve happiness. Emphasis is placed on ideas and the historical events of the times related to them.

H212 THE FRENCH REVOLUTION AND NAPOLEON

Analysis of the principles, causes, and phases of the French Revolution and the era of the Directory and Napoleonic rule.

H213 THE SEVENTEENTH CENTURY

Selected topics concerned with the question of the seventeenth century as the first modern era. Topics include: Absolutism in France vs. Constitutionalism in England, The Scientific Revolution and Its Social and Intellectual Consequences, The Emergence of the Bourgeoisie.

H214 HISTORY OF MODERN GERMANY

An in-depth study of major events and developments in Germany from 1815 to the present.

H215 THE EARLY MIDDLE AGES

A study of the Mediterranean world and northern Europe, focusing on the problem of transition from Rome to the Middle Ages and the successors to Rome; the Byzantine, Moslem, and Carolingian Empires; 200 A.D.-1000 A.D.

H216 THE HIGH MIDDLE AGES

A study of Western Europe, c. 1000-1450, focusing on feudal society; the medieval political, economic, and cultural Renaissance; and the problem of the decline of the Middle Ages.

H217 FRANCE SINCE 1815

France from the post-Napoleonic period to 1940, with emphasis upon the various regimes of the nineteenth century and the rise and fall of the Third Republic.

H218 HISTORY OF EASTERN EUROPE SINCE 1815

This course will concentrate on the political, social, and economic developments in the Austro-Hungarian Empire and the Balkans.

H219 BLACK AMERICAN HISTORY TO 1890

The role of Afro-Americans in the development of American life from 1619 to 1890.

H220A AMERICAN HISTORIOGRAPHY

An analysis of historical research and methodology and a study of past and present American historians.

H220E EUROPEAN HISTORIOGRAPHY

A study of ancient and modern European historians and analysis of historical research methods.

H221 HISTORY OF MODERN ITALY

A course emphasizing Italian Nationalism, unification, growth of democracy, fascism, and current social and political developments.

H222 MODERN BRITAIN

Social and political crisis before 1914, the Home Front in war, post-war experiments in Labour and Conservative politics, the depression, Chamberlain and Hitler, World War II.

H223 HISTORY OF MODERN IRELAND

Political, social, religious, and economic developments in Ireland from the Act of Union (1800) to her emergence as an independent nation.

H224 BLACK AMERICAN HISTORY SINCE 1890

This course stresses: legal separation, *B. T. Washington vs. W. E. B. DuBois*, organized protests, desegregation, the civil rights movement.

H301 EUROPE IN THE NINETEENTH CENTURY

An introduction to the economic, social, and political forces vital to this century, with a study of the national histories prominent at that time.

H302 EUROPE IN THE TWENTIETH CENTURY

An analysis of the political, social, economic, and cultural aspects of twentieth-century Europe.

H303 POPULISM AND THE PROGRESSIVE ERA

An intensive probe into the development of the American Commonwealth from 1877 to 1920.

H304 UNITED STATES IN THE TWENTIETH CENTURY

Prerequisite: H202. A description and analysis of major events and forces in American history from the Progressive Era through World War II. Special emphasis on social and political themes and on recent historical interpretations.

H305 HISTORY OF EARLY RUSSIA

Russian history from the Kievan and Mongolian periods through the Appanage Age and the rise of Imperial Czardom.

H306 HISTORY OF MODERN RUSSIA

This survey traces the rise and decline of monarchy since Peter the Great, Russia's external expansion and the revolutions of 1905 and 1917.

H307 HISTORY OF GREECE

This course covers the history of Greece from the twelfth century B.C. to the Roman occupation.

H308 SURVEY OF ROMAN CIVILIZATION

Roman social, intellectual life in the context of historical events from the city's origins to the Late Empire. Extensive slides emphasizing art, architecture, archaeological field work.

H309 NATIONALISM AND SECTIONALISM IN AMERICA: 1816-1850

A study of the significant trends facing young America from the War of 1812 to the eve of the Civil War, with emphasis on the domestic scene.

H310 CIVIL WAR AND RECONSTRUCTION: 1853-1877

The great upheaval in mid-century America: causes, the agony of war, and the legacy of division between sections and races.

H312 THE WESTWARD MOVEMENT: 1763-1890

The growth and development of the West, the treatment of American Indians, and the influence of the frontier on the political, cultural, and economic life.

H313 HISTORY OF THE OLD SOUTH

Analysis of the characteristics of a distinctive southern society, its politics, economy, and culture, from settlement to secession.

H314 HISTORY OF AFRICA TO 1850

Origin of man in East Africa. Development of African civilization, with emphasis on the empires of Egypt, Axum, Kush, Ghana, Mali, Songhai, Lunda-Luba, and Zimbabwe. African trade contracts with Asia, Europe, North America.

H315 MODERN EUROPEAN IMPERIALISM: 1850-1950

The motives and methods of European Imperialism, and selected resistance movements in Africa and India.

H316 HISTORY OF THE NEW SOUTH

Covers the nature of southern society, problems, behavior; and its history from Reconstruction to the present, stressing southern alienation from and re-integration into American society.

H317 HISTORY OF CANADA

The political, social, economic, and cultural factors from early French and colonial settlements to the present.

H318 HISTORY OF THE AMERICAN CITY

Historical study of American cities since colonial times with emphasis on current problems. Consideration of the connection of cities with industrialization, technology, education, population change, community planning, culture, transportation, and government.

H319 HISTORY OF THE MODERN NEAR EAST

A survey from 1815 to the present, traces the decline of the Ottoman Empire, rises of Nationalism, and the Arab-Israeli conflict.

H320 AFRICA SINCE 1850

A continental survey of Africa from 1850 to 1938. African states before European takeover. European expansion and conquest. The colonial period. African reactions to colonialism.

H321 HISTORY OF AMERICAN LABOR

A historical survey of labor and its place in American life from colonial times to the present. Major emphasis on the founding, history, development and place of labor unions in American history.

H322 HISTORY OF THE SOVIET UNION SINCE 1917

After brief treatment of the final phase of the Imperial Regime and the Provisional Government, the course will survey the political, social, economic and cultural history of the U.S.S.R. from 1917 to the present.

H401 EUROPEAN INTELLECTUAL HISTORY: 1600-1815

A study of the scientific, political, and ideological beliefs of the seventeenth and eighteenth centuries, with particular consideration of the seminal minds and their ideas.

H402 EUROPEAN INTELLECTUAL HISTORY SINCE 1815

Among the topics evaluated are romanticism, conservatism, liberal democracy, socialism, Marxism, Darwinism, Irrationalism, Freudianism, Existentialism, Totalitarianism, and the dilemmas of contemporary Europe.

H403 DIPLOMATIC HISTORY OF THE UNITED STATES I

Analyzes the main forces that have shaped the early development of American foreign policy from 1777 to 1898.

H404 DIPLOMATIC HISTORY OF THE UNITED STATES II 2C.L., 2S.H.

Prerequisite: H403. A study of American foreign relations during the twentieth century. The period 1898-1945 will be covered.

**H405 SOCIAL AND CULTURAL HISTORY OF THE UNITED STATES
TO 1870**

The development of American thought and society with emphasis on the impact of Puritanism, Individualism, and Transcendentalism on the American scene.

**H406 SOCIAL AND CULTURAL HISTORY OF THE UNITED STATES
SINCE 1870**

A study of the transition of the United States to an urban, industrialized society, and the effect on the social, cultural, and intellectual life of the people.

H407 CONTEMPORARY EAST ASIAN CIVILIZATION

This course will focus on the transformation of China and Japan since 1800, and its impact upon Korea and Southeast Asia.

H408 EARLY EAST ASIAN CIVILIZATION

A study of the social, cultural, political, and economic institutions of Traditional China and Japan and concurrent developments in Korea and Southeast Asia.

H410 HISTORY OF CONTEMPORARY EUROPE SINCE 1939

The current national developments in Western Europe will be studied after a brief analysis of World War II. Special attention to be given to the social, economic, and cultural trends of recent origin.

H411 SEMINAR IN COMPARATIVE HISTORY OF THE UNITED STATES AND LATIN AMERICA

A study of selected sources and topics in the social, cultural and intellectual history of the United States and Latin America. Discussion meetings, readings and guided independent research. **Open to Juniors and Seniors only.**

H490 SEMINAR IN SELECTED TOPICS

Prerequisite: Consent of chairman. This course emphasizes historiography and the techniques of research and writing in history in preparation for the honors thesis.

LAW ENFORCEMENT

James P. Jones, Ph.D., Director

The Law Enforcement program is designed to meet the educational needs of today's police personnel in a dynamically changing society. The emphasis rests on the social sciences and is an inter-departmental program. The core requirements are LE101, Introduction to Law Enforcement; CH311, Criminalistics; and G403, Urban Geography. In addition to the core requirements, the student majoring in the Law Enforcement Program must elect 21 semester hours in the social sciences. The minor will constitute the core requirements and an additional 9 semester hours in the social sciences.

Courses meet three hours each week for three semester hours.

LE101 INTRODUCTION TO LAW ENFORCEMENT

This course is designed to acquaint the student with the historical and philosophical background to law enforcement in the United States, the various agencies established to regulate criminal and non-criminal activities of the citizens, and recent trends.

LE102 CRIMINAL LAW

This course introduces the student to the basics of criminal law, its development, past and present elements of crimes, the law of arrest and constitutional limitations on evidence.

MATHEMATICS

Seymour Kass, Ph.D., Chairman

The department of mathematics offers programs of study leading to the B.A. and B.S. degrees. The training offered contributes to the preparation of students for a wide variety of careers including the professions of secondary-school mathematics teaching, actuarial mathematics, computer science, creative research, and industrial technology.

To aid in describing the requirements for a major or minor in mathematics, the set of course numbers has been partitioned into six groups which are listed following the next few paragraphs.

To graduate as a mathematics major a student must accumulate a minimum of 36 hours in mathematics to be distributed as follows: all 21 hours in Group I; 6 hours in Group II, not all in geometry; at least 9 hours in Group III not completed in Group II. M311 should be taken in the sophomore year.

The above minimal requirements are not sufficient for the student who intends to continue the study of mathematics in a graduate school. Such continuing mathematics majors should take M407, M409 and M416.

Entering freshmen intending to major in mathematics will be required to take an examination. On the basis of their scores they will be advised at what level they should begin their major. All mathematics majors are required to register with the mathematics department in order that an advisor may be assigned to help the student plan his program of study.

To graduate as a mathematics minor, a student must accumulate 21 semester hours in mathematics by choosing courses from Groups I through IV. However, an elementary major desiring a minor in mathematics may elect courses from Group V as well.

Students whose curricula emphasize theory, applications, or teaching may graduate with honors by presenting in M490 a paper representing independent work in a topic not covered in formal course work. If the student gives three typed copies of this paper by May 1 to the chairman of the mathematics honors program committee, and if his work is approved by his advisor and the chairman of the committee, then the department shows its recognition of such extra work by bestowing a certificate and the student is mentioned as graduating with honors in mathematics at commencement exercises.

Prospective actuarial candidates for the life insurance industry are advised to take the following courses: M312, M402, M403, M404, and M405.

Students intending to continue with mathematics at the graduate level are advised to select their Group III courses from among M407, M409, M410, M411, M412, M413, M415, M416.

The mathematics courses are grouped (with the letter M omitted) as follows:

Group I (for students who began major studies before September 1972): 103, 107, 108, 207, 311, 406.

Group I (for students beginning their major studies in September 1972 or later): 105, 106, 205, 206, 311, 406.

Group II: 306, 307, 308, 407.

Group III: 111, 112, 208, 306, 307, 308, 309, 310, 312, 335, 401, 402, 403, 404, 405, 407, 409, 410, 411, 412, 413, 415, 416, 440, 441, 490.

Group IV: 102, 103, 109, 110.

Group V: 224, 225, 226, 227.

Group VI: 101, 305, 316, 326.

All courses meet three hours each week for three semester hours unless otherwise indicated.

M101 FUNDAMENTAL PRINCIPLES OF MATHEMATICS I

Topics included are: sets, logic, introduction to the real number system, and applications. This course is offered for non-mathematics and non-science majors.

M102 FUNDAMENTAL PRINCIPLES OF MATHEMATICS II

Prerequisite: M101. This course includes topics from some of the following areas: analytic geometry, number theory, probability theory, algebra, and computer science. This course is offered for non-mathematics and non-science majors.

M103 PRE-CALCULUS

This course presents a review of high school algebra and trigonometry for students not prepared for Analytic Geometry and Calculus.

M105 ANALYTIC GEOMETRY

This course presents the geometry of the plane and 3-space in coordinate and vector style, conic sections, parametric equations, and curve tracing.

M106 CALCULUS I

4C.L., 4S.H.

Prerequisite: M105. This course includes differential calculus and its applications.

M107 CALCULUS I

4C.L., 4S.H.

Prerequisite: M103. This course covers limits, continuity, differentiation, and applications of the derivative. (Not open to students entering in September 1972 or later.)

M108 CALCULUS II

4C.L., 4S.H.

Prerequisite: M107. This course covers the concept of area and integral, reviews analytic geometry, and treats the calculus of transcendental and trigonometric functions. (Not open to students entering in September 1972 or later.)

M109 MATHEMATICAL ANALYSIS I

This course serves as an introduction to the basic ideas of calculus and probability theory with emphasis on understanding mathematical concepts and applications of them.

M110 MATHEMATICAL ANALYSIS II

Prerequisite: M109. This course includes the definite integral, fundamental theorem of calculus, methods of integration, applications, continuous and discrete probability.

M111 INTRODUCTION TO COMPUTER SCIENCE I 2C.L., 2L., 3S.H.

This course is designed to acquaint the student with the scope and power of a high speed digital computer and with the techniques by which its potential can be realized.

M112 INTRODUCTION TO COMPUTER SCIENCE II 2C.L., 2L., 3S.H.

This course studies machine and assembly programming. Emphasis is on the mathematical considerations involved in design and operation of computers.

M205 CALCULUS II 4C.L., 4S.H.

Prerequisite: M106. This course includes integral calculus with methods and applications.

M206 CALCULUS III 4C.L., 4S.H.

Prerequisite: M205. This course includes infinite sequences and series, and differential and integral calculus of functions of several variables.

M207 CALCULUS III 4C.L., 4S.H.

Prerequisite: M108. This course includes the study of parametric equations, polar coordinates, methods and applications of integration, vectors in the plane and some solid analytic geometry. (Not open to students entering in September 1972 or later.)

M208 CALCULUS IV 4C.L., 4S.H.

Prerequisite: M207. This course studies vectors in three dimensions and continues the discussion of solid analytic geometry; also included are: L'Hôpital's rule, sequences, series, partial differentiation and multiple integrals. (Not open to students entering in September 1972 or later.)

M224 THE STRUCTURE OF NUMBER SYSTEMS I

This course includes logic, elementary set theory, numeration, and the construction and properties of whole numbers.

M225 THE STRUCTURE OF NUMBER SYSTEMS II

Prerequisite: M224. This course includes an analysis of the construction of rational numbers and real numbers. Elementary number theory and modular number systems are included.

M226 INTUITIVE GEOMETRY

This course includes the study of space, planes, lines, and figures as sets of points with their properties developed intuitively. Coordinate geometry and the basic concepts of measurements also are included.

M227 ELEMENTS OF ALGEBRA

Prerequisite: M305 or M225. This course is concerned with the basic ideas and structure of algebra and incorporates some experimental work to accomplish this end.

M305 BASIC MODERN MATHEMATICS

This course includes: numeration systems, set operations, arithmetic algorithms, fractions, percent, simple informal geometry and trigonometry.

M306 FUNDAMENTAL CONCEPTS OF GEOMETRY

Prerequisite: M311. This course is a study in depth of the foundations of that geometry customarily offered in high schools. In particular, it treats the basic properties of absolute, Euclidean, and hyperbolic geometrics.

M307 PROBABILITY

Prerequisite: M108. The course includes properties of the probability set functions, conditional probability, independence, stochastic processes, distributions and expectations of random variables, and limiting distributions.

M308 HIGHER GEOMETRIES

Prerequisite: M311. This course is a study of the properties of projective geometries and subgeometries. The course is developed using synthetic methods and expanded through analytic techniques.

M309 HISTORY OF MATHEMATICS

Prerequisite: M107. This course surveys the history of elementary mathematics, through calculus, from ancient times to the present. Emphasis is on the major developments in the fields of arithmetic, algebra, and geometry, and on contributions of noteworthy mathematicians and epochs.

M310 INTRODUCTION TO NUMBER THEORY

Prerequisite: M311. This course includes elementary properties of integers, the Euclidean algorithm, divisibility, congruence and diophantine equations, and number-theoretic functions.

M311 SET THEORY AND LOGIC

Prerequisite: M107. This course covers set theory, logic and number systems.

M312 NUMERICAL ANALYSIS

Prerequisites: M108, M111. This course includes finding roots of functions, numerical differentiation, numerical integration, and numerical solutions of ordinary differential equations.

**M316 METHODS OF TEACHING MATHEMATICS IN THE
KINDERGARTEN-PRIMARY SCHOOL**

2C.L., 2S.H.

Prerequisite: M225 or M305. This course considers the research, methods, and materials of instruction appropriate to the teaching of mathematics in grades kindergarten through three.

**M326 METHODS OF TEACHING MATHEMATICS IN THE
ELEMENTARY SCHOOL**

2C.L., 2S.H.

Prerequisite: M225 or M305. This course considers the research, methods, and materials of instruction appropriate to the teaching of mathematics in grades one through six.

M335 MATHEMATICS FOR SECONDARY SCHOOL TEACHERS

This course concentrates on those aspects of mathematics that are fundamental to a basic understanding and effective teaching of secondary school mathematics.

M401 MATHEMATICAL DISCOVERY

This course analyzes generally the ways and means of discovery of problem solutions and also aims at improvement in the teaching of problem solving.

M402 MATHEMATICAL STATISTICS I

Prerequisite: M307. This course is a broad introduction to classical large-sample methods. Topics covered are probability, frequency distributions, sampling theory, hypothesis testing and estimation, correlation and regression.

M403 MATHEMATICAL STATISTICS II

Prerequisite: M402. This course includes limiting distributions, small sample distributions, distribution-free statistical inference, statistical hypotheses, analysis of variance, and multi-variable distributions.

M404 MATHEMATICS OF FINANCE

Prerequisite: M107. This course considers the application of algebra to interest, annuities, bonds, investments and life insurance.

M405 MATHEMATICS OF LIFE INSURANCE

Prerequisite: M404. This course includes mathematical theory of life contingencies, mortality tables, annuities, net premiums, reserves, non-forfeiture benefits, and gross premiums.

M406 ABSTRACT ALGEBRA I

Prerequisite: M311. This course introduces algebraic structures, emphasizing groups, rings, integral domains and fields.

M407 ABSTRACT ALGEBRA II

Prerequisite: M406. This course continues M406, emphasizing vector spaces, linear transformations, and matrices.

M409 DIFFERENTIAL EQUATIONS

Prerequisite: M208. This course familiarizes the student with first and second order differential equations, linear differential equations with constant coefficients, singular solutions, and physical applications.

M410 TOPOLOGY

Prerequisites: M207, M311. This course gears point-set topology to the undergraduate including topics such as topologies, continuity, connectivity, compactness, separation axioms, and metric spaces.

M411 REAL ANALYSIS I

Prerequisites: M207, M311. This course includes relations, functions, sequences, series, elements of metric topology, and the properties of monotone and continuous real-valued functions of a real variable.

M412 REAL ANALYSIS II

Prerequisite: M411. This course includes the Riemann and Riemann-Stieltjes integrals, elements of measure theory, and the Lebesgue integral.

M413 INTRODUCTION TO MATHEMATICAL PHYSICS

Prerequisite: M409. This course introduces curvilinear coordinates by means of tensors of second rank, transformations, vector and scalar fields, while making use of several advanced mathematical techniques that could be applied in physics.

M415 COMPLEX ANALYSIS

Prerequisites: M208, M311. This course includes complex numbers, holomorphic functions, contour integrals, and complex series.

M416 ADVANCED CALCULUS I

Prerequisites: M208, M311. This course familiarizes the student with functions of several variables, inverse and implicit functions, curves and surfaces, line and surface integrals, orthogonal functions, and Fourier analysis.

M440 TOPICS IN ABSTRACT MATHEMATICS

Prerequisite: M207, M311. This course provides the opportunity to study some abstract topics in mathematics not usually covered in formal course work and it is a preparation for students to do independent work in their field of interest.

M441 TOPICS IN APPLIED MATHEMATICS

Prerequisites: M207, M311. This course provides the opportunity to study some applied mathematical topics not usually covered in formal course work and it is a preparation for students to do independent work in their field of interest.

M490 SPECIAL TOPICS IN MATHEMATICS

Prerequisite: M440 or M441. This course requires each student to do independent work in his field of interest in mathematics.

**ED336M METHODS OF TEACHING MATHEMATICS IN THE
SECONDARY SCHOOL**

4C.L., 3S.H.

Prerequisite: ED333. This course develops the essentials and refinements of lesson planning and effective teaching of secondary school mathematics through classroom experiences at the laboratory school and related seminar sessions.

ED430 STUDENT TEACHING AND SEMINAR

6S.H.

Prerequisite: ED336M. This is a laboratory course of 8 weeks' duration providing full-time student teaching experience in public secondary schools under the guidance of a regular classroom cooperating teacher.

MUSIC

Elizabeth A. O'Brien, Ed.D., Chairman

The program in music is designed to develop the student's aesthetic nature through a program of theoretical and listening courses which are open to all students. Two courses are required for elementary or kindergarten-primary education majors, MS411 for those preparing to teach at the kindergarten-primary level and MS422 for those preparing to teach at the elementary level.

To graduate as a music minor, a student with an instrumental background must accumulate 18 hours in music by fulfilling the following minimum requirements:

9 semester hours of music theory; 3 semester hours in a performing course (Choir or Band); and the remaining semester hours in music courses of the student's choice (excluding MS201).

Participation in one of the musical organizations is required of those pursuing a minor in music.

All courses meet three hours a week for three semester hours unless otherwise indicated.

MS101 MUSIC IA

Fundamentals of music theory; analysis; ear training and sight singing; and vocal music.

MS102 MUSIC IB

Prerequisite: MS101. This course continues the work of Music 1A and also includes a study of elementary harmony.

MS201 APPRECIATION OF MUSIC

A general survey of the history and literature of music. Form, orchestration and stylistic features are studied. **Assigned readings.**

MS203 MUSIC IIA

Prerequisite: MS102. More advanced work in harmony, analysis, ear training and sight singing, and choral singing.

MS204 MUSIC IIB

Prerequisite: MS203. This course develops further the work of MS203 and also includes the study of seventh chords and modulation.

MS205 BASIC STUDIES IN MUSIC

Selected works will be heard and analyzed from various approaches. **Recommended for music minors.**

MS301 MUSIC IIIA

Prerequisite: MS204. More advanced work in harmony, analysis, ear training and sight singing, and choral singing.

MS302 MUSIC IIIB

Prerequisite: MS301. The course continues the work of Music IIIA and includes the study of chords of the dominant ninth, eleventh and thirteenth, the Neapolitan sixth and the chords of the augmented sixth.

MS333 MASTERPIECES OF MUSIC

Prerequisite: MS201 or MS205. Recognized musical masterworks from the Renaissance to the Modern Period will be studied through listening.

MS334 OPERA

Prerequisite: MS201 or MS205. A survey of opera from the time of the Camerata to the present.

MS335 AMERICAN MUSIC

Prerequisite: MS201 or MS205. Developments in the history of American music from the time of the New England hymnodists to the present, including jazz and show music.

MS337 MUSIC OF THE BAROQUE PERIOD

Prerequisite: MS201 or MS205. The styles, forms and techniques of the period from 1600 to 1750.

MS340 MUSIC OF THE TWENTIETH CENTURY

Prerequisite: MS201 or MS205. Trends in contemporary music and their relationship to social and political trends in this century.

MS341 RUSSIAN MUSIC

Prerequisite: MS201 or MS205. Music from the time of Catherine the Great to the present will be studied.

MS402 MUSIC IV

Prerequisite: MS302. Advanced work in the use of harmonic materials.

MS411 MUSIC, KINDERGARTEN-PRIMARY

A study of materials and methods suitable for use at the kindergarten-primary level.

MS422 MUSIC, ELEMENTARY SCHOOL

A study of materials and methods suitable for use in the elementary grades.

MS435 CLASS PIANO

A practical group approach to the piano, in which music fundamentals, reading piano music, learning to harmonize and accompany melodies, transposition and improvisation develop essential keyboard skills. **Recommended for music minors and kindergarten-primary students. May be taken for more than one semester.**

MS441 CHOIR

2C.L., 1S.H.

Prerequisite: Consent of instructor. The study and performance of choral literature from the Renaissance to the Contemporary period. Performance at college functions and the presentation of concerts. May be taken for a maximum of seven semesters.

MS442 BAND

2C.L., 1S.H.

Prerequisite: Consent of instructor. Study of standard band and wind ensemble repertoire; rehearsal techniques; preparation and presentation of concerts. Performs during basketball and hockey season at home and away games. May be taken for a maximum of seven semesters.

MS490 HONORS SEMINAR IN MUSIC

Directed study and research on an approved problem in consultation with the department Honors advisor. A finished thesis or lecture-recital and thesis must be accepted. This course is available for credit only once, preferably in the final semester's work of the undergraduate degree.

NATURAL SCIENCES

Henry Mariani, Chairman

A Natural Science major and minor are offered by the Physics Department in conjunction with Biology, Chemistry and Earth Science.

Majors in Natural Science, usually taken with a secondary education minor, are required to complete the following courses: P101, P102, or P103, P104, P306, P406, BI201, BI202, CH101, CH102 and G101.

A minor in Natural Science may be earned by completing the following courses: P101, P102 or P103, P104, CH101, CH102, BI201 and BI202.

All courses meet three hours each week for three semester hours unless otherwise indicated.

PS101 PHYSICAL SCIENCE I

An introductory course for non-science majors in which selected topics in physics are considered.

PS102 PHYSICAL SCIENCE II

An introductory course for non-science majors in which selected topics in chemistry, atomic structure, periodic law, etc., are considered.

PS103 NATURAL SCIENCE I

2C.L., 2L.

An introductory course for non-science majors in which selected topics in physics and astronomy are considered. The emphasis is on the inquiry approach with selected activities to illustrate the methodology of science.

PS104 NATURAL SCIENCE II

2C.L., 2L.

An introductory course for non-science majors in which selected topics in chemistry are considered. The same rationale is employed as in PS103.

PS105 WORKSHOP IN PRACTICAL ELECTRONICS

2C.L., 2L.

Designed for students with little or no training in mathematics, physics, or electricity. The operation and design of simple circuits are explained in detail. Emphasis will be on "how it works" rather than on theory and why.

PHILOSOPHY

James G. Colbert, Jr., Ph.D., Chairman

The Department of Philosophy offers courses to all interested candidates for the B.A. and B.S. degrees and a program leading to a major or a minor in philosophy.

The major in philosophy requires a student to complete a minimum of 30 semester hours in philosophy which must include PH201, Greek Philosophy; PH203, Logic; PH301, Ethics; PH320, Kant; and two of the three history of philosophy courses, PH202, PH204, PH205.

The minor in philosophy requires a student to complete a minimum of 18 semester hours in philosophy which must include PH201, Greek Philosophy; and either PH203, Logic or PH301, Ethics.

All major programs should be planned in consultation with the department chairman.

Major students are encouraged to do directed reading in philosophy under the direction of each course instructor and to take an active part in the Philosophy Club at the college and to attend many of the weekly evening programs and lectures in philosophy given at neighboring universities and colleges. Advance notices are on the philosophy bulletin board.

An honors program in philosophy is available. Interested candidates should apply to the department chairman.

All courses meet three hours each week for three semester hours unless otherwise indicated.

PH101 PROBLEMS OF PHILOSOPHY

An introductory course to acquaint the student with the philosophic method, the problems and issues of philosophy and the great philosophers.

PH102 PHILOSOPHY OF MAN

Man is studied as a rational and social being with supremacy of intellect and anarchy of feeling. Modern images of man and the traditional great philosophies of life will be studied.

PH201 GREEK PHILOSOPHY

This course concentrates on selected philosophers from the Pre-Socratics through Aristotle.

PH202 CONTINENTAL RATIONALISTS

Prerequisite: PH201. A study of the Continental Rationalists from Descartes to Leibniz.

PH203 LOGIC

This is an introductory humanities course on the principles and methods of valid reasoning. Special attention will be given to application of logic.

PH204 MEDIEVAL PHILOSOPHY

Prerequisite: PH201. A study of philosophers and problems of philosophy from St. Augustine to the fourteenth century.

PH205 BRITISH EMPIRICISTS

Prerequisite: PH201. A study of Hobbes, Locke, Berkeley, Hume.

PH206 EXISTENTIALISM

A critical examination of the leading existentialist thinkers such as Kierkegaard, Nietzsche, Jaspers, Heidegger, Sartre, Marcel, and Camus.

PH207 NINETEENTH CENTURY PHILOSOPHY

Prerequisite: PH201. A study of the major philosophers from Hegel to Bergson.

PH210 SYMBOLIC LOGIC

Prerequisite: PH203 or permission of instructor. An examination of modern symbolic or mathematical logic, including both propositional logic and quantification theory. The logic of sentences, axiomatic systems, natural deduction and problems dealing with logical systems will be studied.

PH301 ETHICS

A humanities study of the major philosophical views on normative ethics and moral philosophy. What philosophers have said about what is morally right or wrong will be discussed. These theories will be applied to the individual and to society.

PH302 AESTHETICS

Prerequisites: Two courses in the humanities and one in philosophy. Examination of the work of art—its qualities, its creation, its effect.

PH303 SOCIAL AND POLITICAL PHILOSOPHY

Examination of the relations between ethics and politics, the sources and limits of political obligation, the functions of the state, the nature of law, civil disobedience and revolution.

PH304 AMERICAN PHILOSOPHY

Development of American philosophy through reading and discussion of representative selections. Emphasis is placed on Peirce, James, Royce, Whitehead, Santayana, Dewey.

PH306 PHILOSOPHY OF RELIGION

Prerequisite: One course in philosophy. A philosophical examination of the nature of religious experience, religious arguments, religion and reality, religion and science, religious language, and the changing character of religion in our times.

PH307 THIRD WORLD SOCIAL AND POLITICAL PHILOSOPHY

An examination of the metaphysical, epistemological, and the ethical positions of thinkers such as Gandhi, Fanon, Nkrumah, Guevara, and Mao Tse Tung.

PH308 ORIENTAL PHILOSOPHY

A study of the philosophies of India, China and Japan, i.e., Hinduism, Buddhism, Confucianism and Zen.

PH309 MARXIST PHILOSOPHY

An examination and evaluation of the philosophical positions held by Marx, Engels, Lenin and contemporary Marxist-Leninists.

PH310 EPISTEMOLOGY

Prerequisite: Two courses in philosophy. This course examines the nature of perception and cognition, the relation of thinking to experience and the nature and limitations of knowledge.

PH311 METAPHYSICS

Historically regarded as the heart of philosophy, metaphysics deals with the fundamental problems of being such as causation, contingency, categories, and change. The rejection of metaphysics by Kant and some linguistic philosophers will be examined.

PH312 CONTEMPORARY ETHICAL THEORY

Prerequisite: PH301. An examination of the major trends in twentieth century ethical and meta-ethical theory: naturalism, intuitionism, emotivism, prescriptivism, and the ordinary language approach.

PH320 KANT

Prerequisite: PH202 or PH205. A study of Kant's philosophic contributions with special attention to the *Critique of Pure Reason* and other works of Kant.

PH401 GENERAL PHILOSOPHY

The aims of this course are to acquaint the student with the philosophic method, the problems and issues of philosophy, and the great philosophers.

PH402 CONTEMPORARY PHILOSOPHY

Prerequisite: PH401 or PH101. This course studies the main lines of modern thought. Special attention will be given to the twentieth century philosophers—the Age of Analysis.

PH404 SEMINAR IN PHILOSOPHY

Prerequisite: Four courses in philosophy. One or two selected topics will be treated in depth. Topics will vary from semester to semester.

PH490 HONORS SEMINAR IN PHILOSOPHY

The study area will be determined by the student in consultation with the department chairman and faculty member involved in directing the required reading and honors paper.

PHYSICAL EDUCATION FOR MEN

Peter A. Saitta, Chairman

The department of Physical Education for Men offers a major concentration in physical education culminating in the Bachelor of Science degree. All physical education majors are reminded that they are responsible for meeting the requirements of teaching certification set forth by the Commonwealth of Massachusetts.

Physical Education courses required for the major concentration are: PE304C, History and Philosophy of Physical Education; PE211, First Aid and Training; PE311C, Physiology of Exercise; PE312C, Kinesiology; PE336, Methods of Teaching Physical Education; PE334C, Curriculum for Physical Education; PE431, Tests and Measurements in Physical Education; PE421, Physical Education for the Atypical; Student Teaching in Physical Education; and all the courses in the Physical Education activity series beginning with PE160.

A minor in Physical Education or Athletic Coaching will be granted only to B.S. candidates who complete the specified courses in each discipline. Physical Education minors must complete: PE211, First Aid and Training; PE304C, History and Philosophy of Physical Education; PE311C, Physiology of Exercise; PE312C, Kinesiology; PE334C, Curriculum for Physical Education; PE336, Methods of Teaching Physical Education; and five Physical Education activity courses beginning with the PE160 series, of which PE161, PE162, and PE167C are required.

An elective, graded-credit program of Basic Instruction in Physical Education Activities is offered by the Department of Physical Education for Men for the non-Physical Education major. This program features a wide variety of Physical Education activities and is designed to meet the knowledge, skills development, fitness, and carry-over needs of the individual student. Each course of this nature carries one semester hour credit. A student may elect to take up to four different courses in this category during his undergraduate experience.

All courses meet three hours each week for three semester hours unless otherwise indicated.

The Elective, Graded-Credit, Basic Instruction Physical Education Program for Men

The following courses each carry one semester hour and meet two times each week:

PE101	Soccer
PE102	Basketball
PE103	Softball
PE104	Volleyball
PE105	Squash
PE106	Wrestling
PE107	Weight Training
PE108	Gymnastics
PE109	Lacrosse
PE110	Swimming
PE111	Bowling
PE112	Golf
PE113	Handball
PE114	Badminton
PE115	Ice Skating
PE116	Physical Conditioning
PE117	Table Tennis
*PE118C	Folk Dance
*PE119C	Square Dance
*PE120C	Modern Dance
*PE121C	Social Dance
*PE122C	Sailing
*PE123C	Fencing
*PE124C	Beginning Tennis
*PE125C	Advanced Tennis

*Co-educational

Physical Education Activities beginning with PE160 stress methods of teaching skills and skill development. These courses also carry one semester hour each and meet two times each week:

PE160	Track and Field
PE161	Gymnastics I
PE162	Gymnastics II
PE163	Weight Training
PE164	Basketball
PE165	Squash-Badminton
PE166	Wrestling
PE167	Lacrosse-Soccer
*PE168C	Folk and Square Dance
PE169	Football
*PE170C	Golf-Tennis
PE171	Aquatics
PE172	Power Volleyball

*Co-educational

HL102C HEALTH SCIENCE

A study of the physiology of the body with stress placed on scientific information pertinent to the development of health practices which contribute to effective living.



PE203C RECREATION—A MODERN CONCEPT

A study of the part recreation plays in modern society through an analysis of community recreation, school recreation, national voluntary youth organizations, professional opportunities, and various recreational program areas.

PE211 FIRST AID AND TRAINING

A study of the nature and causes of injuries in the field of athletic sports. The common hazards of play and preventive measures for athletes from the junior high school to the college level of instruction are studied. First aid principles, rehabilitation, and care of athletic injuries are presented.

PE301 PHYSICAL EDUCATION IN THE ELEMENTARY SCHOOL

A study of the aims and objectives of physical education at the elementary school level of instruction. A study and practice of the methods and uses of materials in teaching physical education activities in the elementary school.

PE304 HISTORY AND PHILOSOPHY OF PHYSICAL EDUCATION

A study of the history of physical education from the earliest man to the present. An examination of the leading philosophies of education upon which physical education has been based.

PE311 PHYSIOLOGY OF EXERCISE

2C.L., 2L., 3S.H.

Prerequisite: BI311. A study of the effects of exercise on human organs.

PE312 KINESIOLOGY

Prerequisite: PE311. An analytic study of human motion through mechanics.

PE314 PSYCHOLOGY OF COACHING

2S.H.

A study of proven coaching methods and an investigation of the problems inherent with large group competitive environments.

PE316 LABORATORY EXPERIENCE IN ATHLETIC TRAINING 4L., 2S.H.

A laboratory course in athletic training procedures in which advanced first aid measures, taping techniques for prevention and care of athletic injury, and rehabilitation processes are studied and applied, with special attention to practical application.

PE334 CURRICULUM FOR PHYSICAL EDUCATION

2S.H.

A study of the philosophy for and choice and implementation of physical education curricula for elementary, junior and senior high school, and college level students.

PE336 METHODS OF TEACHING PHYSICAL EDUCATION

A study of appropriate instructional methods in the teaching of physical education activities in grades K through 12.

PE411 COACHING BASKETBALL

2C.L., 2L., 3S.H.

Prerequisite: PE164 or by permission of instructor. The theory and practice of basketball fundamentals, including individual play and styles of team offense and defense. A study of the rules, conditioning, and inherent problems in coaching the sport.

PE412 COACHING TRACK AND FIELD

2C.L., 2L., 3S.H.

Prerequisite: PE160 or by permission of instructor. The theory and practice of coaching track and field events at all levels of competition. The study of conditioning, competitive strategy and the skills fundamental to running, jumping, and throwing activities in track and field.

PE413 COACHING FOOTBALL 2C.L., 2L., 3S.H.

Prerequisite: PE169 or by permission of instructor. The study of various offensive and defensive systems of football play. The study of rules, strategy, coaching methods, conditioning and other allied components in administering a football program.

PE414 COACHING WRESTLING 2C.L., 2L., 3S.H.

Prerequisite: PE166 or by permission of instructor. A study of the essential techniques of wrestling, conditioning, and preparation of teams for meets and tournaments.

PE415 COACHING ICE HOCKEY 2C.L., 2L., 3S.H.

The theory and practice of ice hockey team and individual play. The study of various concepts of team defense and offense under varied situations of competition. Mastery of the fundamentals of skating and other ice hockey playing skills.

PE416 COACHING LACROSSE 2C.L., 2L., 3S.H.

Prerequisite: PE167 or by permission of instructor. The theory and practice of coaching lacrosse. The study of the fundamental skills and strategies of team offense and defense, individual play, and in-season and out-of-season preparation. An examination and practical application of rules interpretation and officiating technique.

PE421 PHYSICAL EDUCATION FOR THE ATYPICAL

A study of the various physical disabilities and their implication for physical education. A study of the techniques designed to prepare students to work with the handicapped within special and regular programs of physical education.

PE422 THE ORGANIZATION AND ADMINISTRATION OF PHYSICAL EDUCATION, HEALTH, AND ATHLETICS

A study of the philosophy, objectives, policies, and problems of the administrative process attached to physical education, health, and athletic programs in the school.

PE431 TESTS AND MEASUREMENTS IN PHYSICAL EDUCATION

A study of the development, evaluation, and application of tests in physical education. A study of elementary statistical techniques and tools with application to physical education activity.

PHYSICAL EDUCATION AND RECREATION FOR WOMEN

Marie I. Farrell, Chairman

The department offers a major in physical education as well as several minors. Candidates for the major in physical education may minor in secondary education and become certified in Massachusetts to teach physical education on the secondary level. Candidates who do not wish to minor in secondary education may select their minor from any other program offered by the college, or may choose to minor in recreation or dance. Certification is possible in cooperation with the department of Secondary Education.

The following courses are required and must be successfully passed for the major in physical education: PE161, Field Sports; PE162, Basketball; PE165, Badminton; PE166, Softball; PE163, Modern Dance I; PE164, Modern Dance II; PE167, Stunt and Tumbling; PE168, Track and Field; PE261, Field Hockey; PE262, Volleyball; PE267, Folk and Square Dance; PE263, Aquatics; PE265, Gymnastics I; PE266, Gymnastics II; PE361, Lacrosse; PE363, Coaching and Teaching Procedures for Team Sports; PE362, Tennis; PE367, Coaching and Teaching Procedures for Individual Sports; PE365, Coaching and Teaching Dance; PE366, Golf; PE461, Skills Elective; PE304, History and Philosophy of Physical

Education; PE312, Kinesiology; PE311, Physiology of Exercise; PE409, Seminar in Physical Education; PE412, Physical Education for the Atypical; BI211, Anatomy; BI311, Physiology; and PE211, First Aid.

Students wishing to minor in physical education must take 18 hours of work in the field including: PE304, History and Philosophy of Physical Education; PE211, First Aid; and four SCH on skill development to be determined in consultation with department advisor.

It is recommended that all minors elect BI211, Anatomy; BI311, Physiology; and HL102, Health Science.

Students wishing to minor in recreation must take 18 hours of work in the field including: PE211, First Aid; PE203, Recreation and Leadership; and PE204, Organization and Administration of Community Recreation. From among the following courses a recreation minor must select courses totaling an additional ten semester credits: PE231, Recreation for Groups with Special Needs; PE233, Physical Education and Recreation for the Mentally Retarded—Practicum and Seminar; PE203, Recreation and Leadership; PE234, Recreation and the Schools; PE235, Organization, Supervision and Administration of Community Schools; PE236, Camping Education; and PE403, Workshop in Outdoor Education. Miss Edith DeAngelis advises the minors in recreation.

Students wishing to minor in dance must take 18 hours including PE267, Physical Education Skill Development; PE221, History of Dance; PE222, Practicum in Dance; PE106, Dance Skills; and E350, Principles of Dramatic Production. Mrs. Margaret Pappalardo advises the minors in dance.

Any student may elect, for graded credit, from among the wide variety of physical education activities offered each semester. A student may elect no more than four physical education activity courses, for credit, during her college career. Any student may continue to elect activity courses after having accumulated four semester hours on a zero semester hour basis.

All courses meet three hours a week for three semester hours unless otherwise indicated.

PE101 PHYSICAL EDUCATION ACTIVITIES

2C.L., 1S.H.

The following activity courses are offered co-educationally to all students:

badminton	life saving
bowling	modern dance
fencing	riflery
folk and square dance	sailing
calling (advanced)	squash
golf	tennis
gymnastics	volleyball

Activity courses offered to women only are:

basketball	art of self defense/golf
modern gymnastics	slimmastics/gymnastics moderne

The skill development courses are open to all women of the college.

PE263 AQUATICS (Formerly PE102 or PE209W)

2C.L., 1S.H.

Instruction is provided for all students wishing to learn to swim or improve their swimming skills. Senior Life Saving and Water Safety Instructor courses also are offered.

PE106 DANCE SKILLS

2C.L., 1S.H.

Classes will be offered in tap, adagio, jazz, modern ballet.

SKILL DEVELOPMENT COURSES

Changes in course numbers:

PE107 to:	PE161 Field Sports	2C.H., 1S.H.
	PE162 Basketball	
PE108 to:	PE165 Badminton	2C.H., 1S.H.
	PE166 Softball	
PE109 to:	PE163 Modern Dance I	2C.H., 1S.H.
	PE164 Modern Dance II	
PE110 to:	PE167 Stunt and Tumbling	2C.H., 1S.H.
	PE168 Track and Field	
PE207 to:	PE261 Field Hockey	2C.H., 1S.H.
	PE262 Volleyball	
PE208 to:	PE267 Folk and Square Dance	2C.H., 1S.H.
PE209 to:	PE263 Aquatics	2C.H., 1S.H.
PE210 to:	PE265 Gym I	2C.H., 1S.H.
	PE266 Gym II	
PE307 Skills to:	PE361 Lacrosse	2C.H., 1S.H.
	PE362 Tennis	
	PE363 Team Sports Coaching and Teaching Procedures	2C.H., 1S.H.
PE308 to:	PE367 Individual Sports Coaching and Teaching Procedures	2C.H., 1S.H.
PE407 to:	PE365 Dance Coaching and Teaching	2C.H., 1S.H.
	PE366 Golf	
Skills Electives:	PE461	2C.H., 1S.H.
	PE462	
	PE463 Test and Measurements (if necessary)	2C.H., 1S.H.
	PE464	

PE203 RECREATION AND LEADERSHIP

This course acquaints prospective community leaders, camp counselors and playground leaders with the need for and the values of recreation in our society.

PE204 ORGANIZATION AND ADMINISTRATION OF COMMUNITY RECREATION

Prerequisite: PE203. The historical, philosophical and theoretical background of recreation, play and leisure through classroom lectures, planning of community recreation programs and leadership experiences.

PE211 FIRST AID (Formerly FA211) 3C.L., 2S.H.
This course fulfills the requirements of the Standard, Advanced and Instructor's Red Cross First Aid courses. Emphasis is placed on prevention of athletic injuries.

PE220 MOVEMENT EDUCATION: AN INDIVIDUALIZED APPROACH TO PHYSICAL EDUCATION 2C.L., 2L., 3S.H.

A practical approach to teaching basic movement and Gymnastics Moderne. This course emphasizes rhythm, the use of hand apparatus and gymnastics equipment.

PE221 HISTORY OF DANCE

A study of the development of dance from primitive man to current trends influencing choreography. This course gives the students an intellectual knowledge of dance to complement their knowledge of the physical skills.

PE222 PRACTICUM IN DANCE 1C.L., 2L., 2S.H.
A practical application of the dance techniques studied in activity classes. One hour of seminar and two hours' teaching experience per week.

PE230 PHYSICAL EDUCATION FOR THE MENTALLY RETARDED
(Formerly PE205)

A study of the characteristics, potentials and limitations of the mentally retarded in the physical education curriculum. The student is provided with an understanding of the philosophy, objectives, and guiding principles of programming physical education activities for the mentally retarded. Not open to students who have taken PE205.

PE231 RECREATION FOR GROUPS WITH SPECIAL NEEDS

An introduction to the philosophy, objectives and basic concepts of recreation programming for special groups. Emphasis will be placed on methods, materials and leadership techniques for conducting programs for the ill and handicapped, the mentally retarded, teens, aged, the disadvantaged, and other special groups within a community.

PE233 PHYSICAL EDUCATION AND RECREATION FOR THE MENTALLY RETARDED—PRACTICUM AND SEMINAR 2C.L., 3S.H.

Prerequisite: PE230. An in-depth study of the problems of the mentally retarded child as he is influenced by physical education and recreational activities. **Thirty hours of field work.**

PE234 RECREATION AND THE SCHOOLS

An in-depth study of the school as a focal point for the provision of total recreation for all ages. Opportunities will be provided for observation and field work in recreation programs at recognized "Community Schools."

PE235 ORGANIZATION, SUPERVISION AND ADMINISTRATION OF COMMUNITY SCHOOLS

An in-depth study of planning, organizing, managing, directing, supervising, and evaluating every phase of a community school recreation program.

PE236 CAMPING EDUCATION

A basic course in camping as an educational/recreational program.

PE301 PHYSICAL EDUCATION FOR THE ELEMENTARY SCHOOL

2C.L., 1S.H.

Emphasis is on the current materials and techniques used for the teaching of physical education in kindergarten through grade 6. Recommend any minor elect this course if it is not required by her curriculum.

PE303 PHYSICAL EDUCATION PROBLEMS IN URBAN SCHOOLS

The course is designed to examine the problems and procedures of physical education programs in urban schools. Field trips to surrounding urban schools, development of model program materials, and experiences as teacher aides will be supplemented with class discussions.

PE304 HISTORY AND PHILOSOPHY OF PHYSICAL EDUCATION

A study of the history of physical education from earliest man to the present. An examination of the leading philosophies of education upon which physical education has been based.

PE306 CURRENT PROBLEMS IN HEALTH AND PHYSICAL EDUCATION

A topical approach to today's problems in health and physical education through the use of current literature.

PE311 PHYSIOLOGY OF EXERCISE

A study of the effects of exercise on human organs.

PE312 KINESIOLOGY

The mechanical analysis of human motion.

PE401 COACHING TEAM SPORTS

The philosophy, standards, techniques, and strategy of coaching competitive girls' and women's teams in basketball, softball, volleyball, field hockey, soccer, and speedball.

PE402 OFFICIATING WOMEN'S SPORTS

The ethics, knowledge and techniques of officiating girls' and women's sports are stressed. The sports included are basketball, volleyball, softball, field hockey and track and field.

PE403 WORKSHOP IN OUTDOOR EDUCATION

5S.H.

An interdisciplinary approach to the understanding of the interrelationships that exist between the natural environment and man is provided through classroom lectures, field trips and a four day outdoor education experience at a campsite.

PE409W SEMINAR IN PHYSICAL EDUCATION

2C.L., 2S.H.

This course includes discussions of the problems in the field, the interpretation and implication of recent research findings and incidents experienced in the practice teaching situation.

PE412 PHYSICAL EDUCATION FOR THE ATYPICAL

To bring about an awareness of the physical, mental and emotional problems of the school aged child. An opportunity will be provided to plan and conduct physical education programs for these atypical students in both the regular and adaptive curricula.

PE420 MOTOR LEARNING

Prerequisites: BI101-102, PY310, PE312. This course analyzes the factors involved in motor skill learning, and investigates relationships between perception, cognition, and motor skill learning. Discusses major theories of learning as applied to motor skills.

PE421 COMPARATIVE PHYSICAL EDUCATION

This course includes comparisons of physical education programs in various countries around the world.

**PE422 ADMINISTRATION OF HEALTH, PHYSICAL EDUCATION
AND ATHLETICS (Formerly PE411W)**

A study of the philosophy, objectives, policies and problems of administrative process attached to physical education and athletic programs in the schools.

HL102 HEALTH SCIENCE

Scientific information and development of health practices contributing to effective living. Current topic areas dealing with narcotics, alcohol and diseases are stressed.

HL103 HEALTH PROBLEMS IN THE CLASSROOM

Health problems occurring in school-age children which adversely affect learning will be presented. Emphasis will be placed on the role of the teacher in recognizing and dealing with these problems.

**ED336PE METHODS OF TEACHING PHYSICAL EDUCATION
IN THE SECONDARY SCHOOLS**

2C.L., 2L., 3S.H.

Prerequisite: ED333 or ED240. This course includes the principles and techniques specific to the teaching of physical education. Opportunities are provided for observation of secondary school programs.

PHYSICS

Henry Mariani, Chairman

The department offers majors in both Physics and Natural Sciences. Majors in Physics are required to successfully complete the following courses: P101, P102, P201, P202, P204, P401, P402, P407, P408, P409 and P410.

A minor in Physics may be earned by successfully completing the following Physics courses: P101, P102, and two additional courses from the list of Advanced Physics courses.

For students interested in teaching Physics, programs can be arranged with the department chairman within these requirements.

All courses meet three hours each week for three semester hours unless otherwise indicated.

P101 COLLEGE PHYSICS I 3C.L., 2L., 4S.H.
An introduction to space, time and matter is the subject matter of the course. The mathematics required is developed in the course as needed.

P102 COLLEGE PHYSICS II 3C.L., 2L., 4S.H.
Prerequisite: P101. Electrical and magnetic phenomena and an introduction to the laws and theories governing them are studied.

P103 GENERAL PHYSICS I 3C.L., 2L., 4S.H.
Topics covered include: mechanics and the laws of motion, projectile and satellite motion, gravitation, momentum and the energy conservation laws. Relativistic effects in mass-energy relations and on motion are covered.

P104 GENERAL PHYSICS II 3C.L., 2L., 4S.H.
Prerequisite: P103. Topics covered include: electrical and magnetic interactions, light and optics, the atomic model and the laws governing the four interactions in nature.

P201 COLLEGE PHYSICS III 3C.L., 2L., 4S.H.
Prerequisite: P102. The concepts of modern (non-classical) physics and relativity with a special emphasis on modern atomic theory are the subjects of the course.

P202 ELECTROMAGNETIC THEORY
Prerequisites: P102, M108. Electromagnetic theory and Maxwell's equations are developed and discussed. The mathematics of waves and wave propagation are also considered.

P204 STATISTICAL PHYSICS 4C.L., 4S.H.
Prerequisites: P201, M207, or their equivalent may be taken concurrently. The microscopic properties of particles governed by atomic physics are considered, using a statistical approach and are connected to the macroscopic behavior of physical systems.

P205 DIGITAL METHODS IN SCIENTIFIC ANALYSIS 2L., 3S.H.
Prerequisites: One year physics and M111 or equivalent knowledge of Fortran. This is a project course. Students will solve problems related to their scientific interest using the college's IBM 1130 computer. The aim of the course is to gain practical experience in solving large scale scientific problems using a computer. Work will be done under the supervision of a faculty member with a technical familiarity of digital methods.

P305 ENERGY: PRODUCTION, NEED AND COST Two 2C.L., 3S.H.

Prerequisite: One year college chemistry or physics. Application of physical science techniques and concepts to the problem of energy technology in modern society is the subject matter of the course. Topics will include: fossil fuel systems, nuclear plants, solar energy, control of atomic energy, systems analysis of energy flow, societal values, the energy ethic and how to develop a large-scale energy strategy.

P306 ASTRONOMY

Prerequisite: One year of college mathematics. An introductory course which treats the major features of the solar system and gives an introduction to stellar astronomy.

P401 MODERN PHYSICS I

Prerequisite: P201. The special theory of relativity, the beginnings of quantum theory, the development of wave mechanics and the solution of Schrodinger's equation for some one-dimensional systems are considered.

P402 MODERN PHYSICS II

Prerequisite: P401. The formal structure of quantum mechanics, Schrodinger's equation in three dimensions, spin angular momentum, and approximation methods in quantum mechanics are treated.

P403 ELECTRONICS

3C.L., 2L., 4S.H.

Prerequisites: P102, M207 (may be taken concurrently). Vacuum tube and transistor theory are studied in detail. The uses of these elements in power supply and amplifier circuits and the limitations of these in instrumentation are investigated.

P406 HISTORY AND PHILOSOPHY OF SCIENCE

Prerequisites: PS101 and PS102, or their equivalent. The primary aims of the course are to trace the development of the physical sciences from their lowly origins in the earlier civilizations to their present prominent status in our society and to examine the essential ideas that accompanied and guided their growth.

P407 ADVANCED LAB I

6L., 3S.H.

Prerequisites: P201, M207. An intensive laboratory course designed to acquaint the students with the modern techniques and instrumentation of physics.

P408 ADVANCED LAB II

6L., 3S.H.

Prerequisite: P407. A continuation of the previous semester's work with special application of the methods to more advanced problems of interest to the students and faculty director.

P409 THEORETICAL PHYSICS I

Prerequisites: M413, P402. The dynamics of particles, rigid bodies and elastic media are examined by the Newtonian, La Grangian and Hamiltonian methods.

P410 THEORETICAL PHYSICS II

3C.L., 2S.H.

Prerequisites: P409 or P203, M413. A detailed development and study of electromagnetic theory and Maxwell's equations and their application are considered.

P490 HONOR SEMINAR

2S.H.

For students with some background in physics. Supervised study according to the needs and interests of the individual student. **Hours variable.**

POLITICAL SCIENCE

David L. Sudhalter, Ph.D., Chairman

A major in Political Science is open to all interested candidates for the B.A. or B.S. degrees. A major is required to complete thirty (30) hours in Political Science before graduation of which GV101, GV102, GV201, GV202 and GV301 are required, and five (5) other courses in the field. All major programs should be planned in consultation with the Department Chairman.

A minor is available for all degree candidates. The minor consists of taking seven courses in Political Science including GV101, GV102 and GV301.

The Political Science Department has an Honors Program.

All courses meet three hours each week for three semester hours unless otherwise indicated.

GV101 AMERICAN GOVERNMENT

An analysis of the executive, legislative, and judicial branches of the national government, with particular attention to the Constitution, federalism, political parties, and economic and welfare activities.

GV102 COMPARATIVE GOVERNMENT

A comparative study of the governments of Great Britain, France, Germany, and the Soviet Union.

GV201 POLITICAL THEORY I

Covers the major political doctrines held by theorists from Plato to Hobbes. Special attention given to placing each theorist in the proper cultural context.

GV202 POLITICAL THEORY II

Continuation of GV201 emphasizing the political theorists from Hobbes through Lenin, with particular stress on the liberal democrats, the socialists, and totalitarian principles.

GV203 POLITICS OF MODERN AFRICA

A survey of representative African government types, with particular stress on socio-political change, nationalism, duality, nation-building and Pan-Africanism.

GV204 EDUCATION FOR CITIZENSHIP

An examination of the nature of democratic citizenship, and the processes through which one participates in the political culture.

GV301 INTERNATIONAL RELATIONS

An analysis of the tangible and intangible elements of national power, the concepts of national interest and the balance of power, and the foreign policies of selected states.

GV302 MASSACHUSETTS GOVERNMENT

A study of state, county, and town governments in Massachusetts.

GV303 AMERICAN CONSTITUTIONAL PROBLEMS AND LAW

Traces American constitutional development, and stresses the role of the Supreme Court, the separation of powers, federalism and individual rights.

GV304 POLITICAL PARTIES AND INTEREST GROUPS

The coalition nature of major political parties, their ideology and structure, the role of third parties, political behavior and pressure groups form the core of this course.

GV305 INTRODUCTION TO LAW

A study of the general principles of statutory and common law.

GV306 BUSINESS LAW

An analysis of the elementary organization and functioning of business enterprises.

GV307 INTERNATIONAL ORGANIZATION

The evolution of international organization, the Hague system, the League of Nations, the United Nations, and supranational groups form the major strand of this course.

GV308 AMERICAN FOREIGN POLICY

A probe designed to give a comprehensive understanding of the conduct of American foreign policy since 1950, with emphasis on economic, diplomatic, and cultural aspects.

GV309 COMMUNIST BEHAVIOR IN WORLD AFFAIRS

An overview of relations between selected members of the socialist world: Asian, Latin American, East and West European, and Near Eastern states.

GV310 URBAN GOVERNMENT

An analysis of the politics of minorities in urban America with stress on urban renewal, suburbia, metropolitan government, pollution, transportation, and the role of the police.

GV311 THE UNITED STATES CONGRESS

To be covered: the mode of election, the seniority system, the committees, the rules and work load and differences between the House and Senate.

GV312 THE PRESIDENCY

Central to this course are the President's role, the tremendous powers held, the advisors necessary for decision-making and the difficulties of achieving the consensus.

GV313 POLITICS OF DEVELOPING AREAS

Study of social mobilization and political modernization in selected developing countries of the Near East, Asia, Latin America, and Africa, with special emphasis on political elites, ideologies and economic development.

GV314 CONTEMPORARY POLITICAL THEORIES

An examination of significant political theories in the twentieth century. Particular stress is given to problems of political obligation.

GV315 INTERNAL POLITICS OF EAST ASIA

Study of the internal politics of the Chinese People's Republic, Japan, and other selected nations of the Far East.

GV316 PUBLIC ADMINISTRATION

Survey of public administration in the United States, with emphasis on bureaucracy, policy-making administrative power, budgetary process, civil service, and control of administration.

GV317 PUBLIC OPINION AND PROPAGANDA

The relationship between public opinion and mass democracy, the news media and public opinion will be analyzed in terms of their political effects, as will democratic and totalitarian propaganda.

GV318 GOVERNMENT AND POLITICS IN THE NEAR EAST

Internal developments in Near Eastern countries as well as the tensions between Israel and the Arab states will be scrutinized. The role of the major powers in the area will be probed.

GV319 CIVIL LIBERTIES

The basic principles of constitutional liberties in the United States will be linked to recent and current topics.

GV320 SOVIET FOREIGN POLICY

Emphasis is on the behavioral elements in Soviet foreign policy since 1917, with particular attention to policy-making, relationships with socialist bloc countries and western and non-aligned nations.

GV321 GOVERNMENT AND POLITICS OF EASTERN EUROPE

Emphasis is on the behavioral characteristics of the Eastern European political systems, including problems of interbloc ideological coordination, economic cooperation and national communism.

GV322 THE CONTEMPORARY PUERTO RICAN

An in-depth study of Puerto Rican government and politics with a special emphasis on the Puerto Rican's problems as a migrant in the United States. Our study will take into account both his island experiences which he brings to the mainland and the nature of the city ghetto (*el barrio*) which usually embraces him when he arrives.

GV323 STATE AND LOCAL GOVERNMENT

2C.L., 2L., 3S.H.

Prerequisite: GV101. This course open only to Juniors and Seniors. An experimental course in city-state power politics in which the students will democratically determine purpose, direction and conduct of the course. The area of student selection will involve bibliography research, seminars, community contacts, papers and guest lecturers.

GV324 REGIONAL ORGANIZATION

Prerequisite: GV301. A course dealing with regional organizations such as the North Atlantic Treaty Organization, the European Economic Community, the Organization of American States, the Organization of African Unity, the Commonwealth, the Nordic Council and the Arab League.

GV325 CONTEMPORARY PROBLEMS OF INTERNATIONAL POLITICS

Prerequisite: GV301. An application of the basic elements of power and principles of national interest to an analytical examination of the crucial major problems currently confronting states in their political, economic and cultural relations.

GV326 INTERNATIONAL LAW

Prerequisite: GV301. A study of the nature, sources, principles, and development of international law and its application and enforcement by national and international tribunals.

GV327 SEMINAR IN BRITISH POLITICS

This course is designed to examine major issues in contemporary British politics. The evolutionary development of the British society in the direction of mass democracy and the welfare state will receive special emphasis.

GV328 THE FORMATION OF FOREIGN POLICY—A COMPARATIVE STUDY

This course will analyze the various ways in which foreign policy is formulated and implemented by various governments. The roles played by interest groups, political parties and public opinion will be studied and discussed.

GV329 INTERNATIONAL POLITICS OF EAST ASIA

An examination of the foreign policies of the Chinese People's Republic, Japan, the two Koreas, and selected nations of Southeast Asia. Particular attention will be given to the relations of the several nations of East Asia with the two super-powers, the United States and the Soviet Union.

GV331 PRESIDENTIAL POLITICS I

4C.L., 3S.H.

An experimental course in which students will study past and contemporary presidential elections from the best available academic sources. In addition, students will participate actively in various presidential primaries for candidates of their choice; meet prominent public officials, presidential candidates, distinguished authors and news media experts.

GV332 PRESIDENTIAL POLITICS II

4C.L., 3S.H.

A continuation of Presidential Politics I, except that concentration will be on the presidential elections.

GV401 PRACTICUM IN FEDERAL ADMINISTRATION

Prerequisite: nine hours of study in Political Science and permission of the instructor. This course will provide students with an opportunity for supervised administrative experience in a regional office of a United States government agency. Students will be required to work 15 hours weekly at the agency to which they have been assigned, attend a weekly seminar at the college, and write a report based on their work experience.

GV402 PRACTICUM IN STATE AND LOCAL ADMINISTRATION

Prerequisite: nine hours of study in Political Science and permission of the instructor. This course will provide students with an opportunity of supervised administrative and technical work experience in the offices of state and local governments in the Boston region. Students will be required to work 15 hours weekly at the office to which they have been assigned, attend a weekly seminar at the college, and write a report based on their work experience.

GV490 SEMINAR IN SELECTED TOPICS

Required of all honors candidates during the second semester of the Junior year. Open to all others with permission of the Department Chairman. This course deals with the writing of special papers and research methods.

PSYCHOLOGY

Bernard A. Stotsky, Ph.D., Chairman

The psychology department offers a program of study leading to the B.A. (non-teaching) or B.S. (non-teaching) degrees in psychology as well as course work required for degrees in education.

The psychology major is first of all a scientist—a scientist interested in behavior. The department therefore believes that its psychology majors should receive a thorough preparation and education in the fundamentals of the scientific method and experimental design and analysis. The program in psychology consists of 24 semester hours which must include all of the following courses: PY101, PY103, PY203, and either PY410, 470 or 490. It is also strongly recommended (but not required) that psychology majors take PY104. These required courses must be taken in the sequential order indicated since each course in the series builds upon the preceding courses. Two or more required courses cannot be taken concurrently. Students should familiarize themselves with the program so that scheduling conflicts will be avoided.

Majors in psychology who are minoring in secondary education are required to take PY231, PY310, ED336PY and ED430 for their minor. These courses may not be counted toward the major.

All psychology majors are required to register as such with the psychology department in order that an advisor may be assigned to help the student plan his program of study.

A psychology minor is comprised of 18 semester hours of which only PY101 is required.

Majors in elementary education and kindergarten-primary education should note that psychology courses PY201 and PY310 may not be credited toward the psychology minor.

Satisfactory completion of PY101 is a prerequisite for all advanced courses.

All courses meet three hours each week for three semester hours unless otherwise indicated.

PY101 INTRODUCTION TO PSYCHOLOGY

The course covers the fundamentals of the scientific study of behavior.

PY103 INTRODUCTION TO STATISTICS

This fundamental course prepares the student to read the research literature in the social sciences, to undertake courses in experimental psychology, and to advance to more sophisticated courses in statistics.

PY104 ADVANCED GENERAL PSYCHOLOGY

2C.L., 2L., 3S.H.

Prerequisite: Consent of instructor. To give the student a more sophisticated understanding of himself and his society through reading and guided experience in the experimental analysis of the behavior of organisms.

PY201 CHILD PSYCHOLOGY

The course presents a systematic, integrative description of the psychological development of children from birth through adolescence.

PY203 GENERAL EXPERIMENTAL PSYCHOLOGY

2C.L., 2L., 3S.H.

Prerequisite: PY103. An introduction to experimental method in the scientific investigation of behavior through laboratory experience and report writing.

PY210 CONTEMPORARY ISSUES IN PSYCHOLOGY

An intensive exploration of a selected topic of current interest in psychology for the general student. Topics will vary; lectures and readings appropriate to the issue will be assigned. May not be elected more than once for credit.

PY231 ADOLESCENT PSYCHOLOGY

This course focuses on the developmental tasks of adolescence, the transitional period from puberty to adulthood.

PY250 PSYCHOLOGY OF DRUG AND ALCOHOL DEPENDENCE

A survey of physical, psychological and sociological factors in drug and alcohol dependence and abuse. A review of physical, psychological and environmental techniques of treatment. Field trips and experience where possible.

PY301 SOCIAL PSYCHOLOGY

An introduction to the study of behavior of the individuals in groups and his interaction with those groups. Under consideration will be topics such as attitudes, language, group interaction, and role theory.

PY302 PHYSIOLOGICAL PSYCHOLOGY

Prerequisite: PY104 or equivalent. The study of the nervous system, the brain, sensory processes, and various physiological states, and how all of these relate to behavior.

PY303 COGNITIVE DEVELOPMENT

Prerequisites: PY201. An advanced seminar on the development of intelligence in children. Theorists to be examined include Piaget, Werner, Bruner and behavioral theorists. Emphasis will be placed on experimental verification of these theories.

PY304 PSYCHOLOGY OF LEARNING

2C.L., 2L., 3S.H.

An intensive study of the principles of learning including classical and instrumental conditioning, reinforcement, extinction, discrimination, verbal learning, etc. with laboratory experience.

PY305 PSYCHOLOGY OF CREATIVITY

A review of current research in the general area of creativity. Emphasis on experimental investigation and empirical findings. Recommended for psychology majors and education majors.

PY310 EDUCATIONAL PSYCHOLOGY

A study of psychological facts and principles fundamental to education, teaching, and personal relationships between teacher and learner. Learning and the various factors affecting classroom behavior will be discussed.

PY312 PSYCHOLOGY OF EXCEPTIONAL CHILDREN

Prerequisites: PY201, PY310. This course covers the characteristics, problems, and educational provisions for the mentally retarded (both trainable and educable), brain damaged, gifted, deaf, hard of hearing, blind, partially sighted, and those with speech defects.

PY333 INTERRACIAL GROUP EXPERIENCE

2 1½C.L., 3S.H.

An intensive group experience for a small, racially mixed group of students designed to (1) sensitize students to the emotional impact of racism on themselves and others, and (2) facilitate greater self-understanding. Relevant psychological constructs are introduced as students attempt to conceptualize their personal experiences. **Written permission of the instructor is necessary to register for this course.**

PY401 THEORIES OF PERSONALITY

Prerequisites: PY101 and six hours of additional study in psychology. This course is designed to acquaint the advanced student with the major psychological theories explaining the structure and dynamics of the human personality.

PY402 PSYCHOANALYTIC THEORIES OF PERSONALITY

Prerequisite: PY401. An intensive exploration for the advanced student of the contributions of psychoanalysis to personality study. A systematic coverage of all major schools beginning with Freud.

PY403 ABNORMAL PSYCHOLOGY

Prerequisites: PY101 and six hours of additional study in psychology. This course is concerned with the development of concepts and principles of unusual mental activity with special emphasis placed upon the relation of those principles and concepts to general, child, and adult psychology. Recommended for psychology majors and education majors.

PY404 PSYCHOLOGY OF THE PUBLIC OFFENDER

Prerequisites: PY201 or PY231; PY403 highly desirable. A study of the etiology of delinquent and criminal behavior with special reference to their psychological sources. "Normal" and pathological offenders and offenses will be studied using all sources of data, including field trips.

PY405 PSYCHOLOGICAL MEASUREMENTS

This course includes the historical background of psychological testing. It also covers elementary statistical concepts, test standardization, the 1960 Stanford-Binet and Wechsler scales, tests of aptitude, achievement, personality, attitudes, and projective methods.

PY406 INDUSTRIAL PSYCHOLOGY SEMINAR

Prerequisite: consent of instructor. This course is designed to prepare the student for the work of psychologists in industry. Areas included are industrial selection, management development, industrial counseling and training.

PY407 HISTORY OF PSYCHOLOGY

Prerequisites: PY101 and 12 additional hours in psychology. A study of the historical developments within the science of psychology from the early Greek period to the present day.

PY408 PSYCHOLOGY OF VOCATIONAL DEVELOPMENT

Prerequisites: PY231 and 9 additional hours in psychology. An investigation into the social, psychological, and developmental factors affecting vocational choice, including a review of theories, empirical studies and assessment techniques. Emphasis will be on the factors and processes of life-long decision-making about vocational choice.

PY410 PSYCHOLOGICAL RESEARCH SEMINAR

Prerequisites: PY203 and 15 additional hours of study in psychology. This seminar offers a program of directed study in the formulation of a research problem, the design of an experiment, the analysis of data, the interpretation of this data, and the writing of a report which adequately communicates these procedures. **Open only to seniors.**

PY470 PRACTICUM IN PSYCHOLOGY

Prerequisites: PY203 and 15 additional hours of study in psychology. This course is designed to provide the advanced student with an opportunity to obtain practical experience in a field situation. Students are required to write a comprehensive evaluation and report of their experience. Placements must be arranged through and approved by the Psychology Department. **Open only to seniors. Hours variable.**

PY490 PSYCHOLOGY HONORS

Prerequisites: PY203 and consent of Honors Committee. Elected in the final semester of the senior year in place of PY410 (Research Seminar) or PY470 (Practicum). Open only to outstanding psychology majors who display not only the minimal grade-point average of 3.0 or above (accumulative for all courses taken in college), but also the ability, initiative, and persistence necessary to do independent research. Class meets once a month in informal sessions to discuss research ideas, thesis proposals, and data analysis. Students must write an Honors thesis of acceptable quality (grade of A or B) based on original research in order to graduate with Honors.

**ED336PY METHODS OF TEACHING PSYCHOLOGY IN THE
SECONDARY SCHOOL**

2C.L., 2L., 3S.H.
Prerequisites: ED333 and completion of 21 semester hours in psychology. This course is designed to meet the objectives and principles essential in the teaching of psychology.

SECONDARY EDUCATION

Herbert Malick, Ph.D., Chairman

This department offers those courses which give the student the necessary qualifications for teaching in a secondary school. Theory and practice are interrelated to provide the finest possible experience for entrance into the education profession. The minor in secondary education consists of the following courses: PY310, Educational Psychology; PY231, Adolescent Psychology; ED333, Procedures for Teaching in the Secondary School; ED336, Methods of Teaching (the specific subject) in the Secondary School; ED334, Curriculum of

the Secondary School; ED337, History and Principles of Secondary Education or ED354, Performance Objectives as Planned Learning; ED431, Tests and Measurements.

Students who prefer a more intensive training in the area of Urban Education may make all or any of the following substitutions: ED238, Introduction to Urban Education in place of ED337, History and Principles of Secondary Education; ED239, Curriculum of the Urban School in place of ED334 (if the student has completed ED238), Curriculum of the Secondary School; ED240, Methods and Materials in the Urban Classroom in place of ED333, Procedures for Teaching in the Secondary School (if the student has completed ED238 and ED239, prerequisites for ED240).

In addition, each candidate is required to complete ED430, Student Teaching, in order to qualify for certification and department recommendation. ED430 is offered only to seniors who have successfully completed PY310, PY231, ED333 or ED240, and ED336 (in the major area).

The Professional Semester

The professional semester is defined as a semester during which the student devotes an entire semester to the completion of those courses necessary for his/her professional preparation. Administratively, this involves a division of one of the senior semesters into two quarters, one of which shall be devoted to the student teaching experience (ED430, Student Teaching, six semester hours applicable to certification requirements but not to college graduation requirements) and one of which shall be devoted to the completion of ED431, Tests and Measurements plus any of the following according to the needs of the student and the rules of the college concerning graduation and maximum allowable credits during a semester: ED334, Curriculum of the Secondary School; ED354, Performance Objectives as Planned Learning; ED337, History and Principles of Secondary Education; ED244, Audio-Visual Media in Education; ED245, Production of Audio-Visual Instructional Media; and ED340 Directed Study in the Field of Secondary Education.

All courses meet three hours each week for three semester hours unless otherwise indicated.

ED238 INTRODUCTION TO URBAN EDUCATION 2C.L., 3S.H.
This course is designed to provide practicum experience in the urban environment: visits to inner-city agencies, family centers, and selected urban schools. Topics to be discussed will include housing conditions, the family, community interactions, etc. Two hours a week in practicum.

ED239 CURRICULUM OF THE URBAN SCHOOL 2C.L., 3S.H.
Prerequisite: ED238 or permission of the instructor. Basic philosophical, psychological, and sociological considerations underlying modern curriculum development will be surveyed. The needs and problems of pupils, teachers, parents and administrators of urban schools will be discussed. Students will have an opportunity to evaluate existing curricular designs in various urban communities in and around the Boston area. Students electing this course must keep one morning or afternoon free for visits to urban schools. Three hours a week off campus.

ED240 METHODS AND MATERIALS IN THE URBAN CLASSROOM 2C.L., 3S.H.
Prerequisite: ED239 or permission of the instructor. This course provides supervised observation of urban classroom teaching. Such observation will focus on the organization and planning of instructional activities, and the selection, preparation, utilization and evaluation of instructional materials. Students will be involved in the educational process as tutors and teacher aides. Students electing this course must keep one morning or afternoon free for visits to urban schools. Three hours a week off campus.

ED244 AUDIO-VISUAL MEDIA IN EDUCATION

It emphasizes the effective use of various audio-visual media as they influence the learning process.

ED245 PRODUCTION OF AUDIO-VISUAL INSTRUCTIONAL MEDIA

Prerequisite: ED244. This course involves the planning and production of a multi-media instructional kit which includes: slide-magnetic tape, single concept film, transparencies, photographs and three dimensional display. Each student will prepare such materials to fit his specific teaching area.

ED333 PROCEDURES FOR TEACHING IN THE SECONDARY SCHOOL

Prerequisite: PY231 or PY310. This course is designed to provide students with an overview of all aspects of teaching in the secondary school. Emphasis is placed on the methods and technology of teaching with special attention given to innovative methods of promoting learning and the role of the teacher in establishing a favorable setting for learning. An integral part of the course consists of two hours per week spent by each student in practicum including observation of master teachers, involvement on a limited scale in the role of teacher aides and in small group instruction.

ED334 CURRICULUM OF THE SECONDARY SCHOOL

A survey of the essential features, methods and techniques of the secondary school curriculum and the use of specific materials in the major and minor fields of student concentration as they pertain to curriculum. This course will also deal with problems and issues in present day curriculum construction and relationship of secondary school curricula to American society.

**ED336BI METHODS OF TEACHING BIOLOGY IN THE
SECONDARY SCHOOL**

2C.L., 2L., 3S.H.

Prerequisite: ED333 or ED240. This course includes a consideration of the aims and principles involved in the teaching of biology.

**ED336E METHODS OF TEACHING ENGLISH IN THE
SECONDARY SCHOOL**

2C.L., 2L., 3S.H.

Prerequisite: ED333 or ED240. This course includes a consideration of the aims and principles involved in the teaching of grammar, composition, and literature.

**ED336G METHODS OF TEACHING GEOGRAPHY AND EARTH
SCIENCE IN THE SECONDARY SCHOOL**

2C.L., 2L., 3S.H.

Prerequisite: ED333 or ED240. Emphasis will be placed on ESCP and Project Geography materials and methods as well as innovations and recent developments.

**ED336H METHODS OF TEACHING SOCIAL STUDIES IN THE
SECONDARY SCHOOL**

2C.L., 2L., 3S.H.

Prerequisite: ED333 or ED240. This course includes a consideration of the aims and principles involved in the teaching of history, government, economics, and problems of democracy.

**ED336L METHODS OF TEACHING MODERN LANGUAGES IN
THE SECONDARY SCHOOL**

2C.L., 2L., 3S.H.

Prerequisite: ED333 or ED240. This course includes a consideration of the principles of language learning along with the methods and materials for teaching modern languages.

**ED336M METHODS OF TEACHING MATHEMATICS IN THE
SECONDARY SCHOOL**

2C.L., 2L., 3S.H.

Prerequisite: ED333 or ED240. This course includes a consideration of the aims and principles involved in the teaching of mathematics.

**ED336PE METHODS OF TEACHING PHYSICAL EDUCATION IN
THE SECONDARY SCHOOL**

2C.L., 2L., 3S.H.

Prerequisite: ED333 or ED240. This course includes the principles and techniques specific to the teaching of physical education. Opportunities are provided for observation of secondary school programs.

**ED336PY METHODS OF TEACHING PSYCHOLOGY IN THE
SECONDARY SCHOOL**

2C.L., 2L., 3S.H.

Prerequisites: ED333 and completion of 21 semester hours in psychology. This course is designed to meet the objectives and principles essential in the teaching of psychology.

**ED336SC METHODS OF TEACHING SCIENCE IN THE
SECONDARY SCHOOL**

2C.L., 2L., 3S.H.

Prerequisite: ED333 or ED240. This course includes a consideration of the aims and principles involved in the teaching of astronomy, chemistry, geology and physics.

ED337 HISTORY AND PRINCIPLES OF SECONDARY EDUCATION

An examination of the historical foundations of secondary education in the United States and a critical analysis of recurrent issues in the history and philosophy of education.

ED340 DIRECTED STUDY IN THE FIELD OF SECONDARY EDUCATION

Prerequisite: Consent of chairman. Students electing this course will complete an assignment of their own choice in the area of educational research. There will be no formal class sessions, but students will be expected to meet with their advisors by appointment.

ED341 IMPROVED READING SKILLS IN THE SECONDARY SCHOOL

Prerequisite: PY231 or PY310. The course is designed to acquaint secondary minors with those reading skills appropriate for success in the content areas, and to help them develop strategy for teaching such skills.

ED342 THE ROLE OF THE COMPUTER IN EDUCATION

Prerequisite: M111. This course is designed to develop an awareness of the use and application of computer technology in the field of education. Data management techniques and systems analysis will be discussed.

ED343 FILM STUDY AS A TEACHING TOOL

This course is designed to emphasize a multi-disciplinary approach to film study as a teaching method and technique. Visual literacy will be considered on three levels of cognition: (1) the ability to recognize and to identify visual symbols; (2) to enumerate and to classify visual stimuli; (3) to formulate conclusions and to draw inferences from that which is depicted visually. Seminar discussions will emphasize film as a teaching tool.

ED354 PERFORMANCE OBJECTIVES

This course helps prospective elementary and secondary school teachers to orient themselves toward the concepts of behavioral objectives and teacher accountability. Skills and criteria for writing such objectives are developed by students. Curriculum is analyzed as structures of subject matter arranged for specific learnings. The thinking process, supervision, the use of media and the teacher's role as a facilitator of learning are also examined. Some techniques of values clarification as a process are presented. This course historically is the continuance and in a sense is the culmination of beliefs and methodologies discussed by a long line of men influential in the history of education, from Aristotle to Bruner.

ED430 STUDENT TEACHING AND SEMINAR

6S.H.

Prerequisites: PY310, PY231, ED333 or ED240, ED336. A laboratory course of eight weeks' duration providing full-time student teaching in public secondary schools. The seminar is concerned with fresh topics such as professional ethics, school records, securing a teaching position, current trends in education, and in-service professional growth.

ED431 TESTS AND MEASUREMENTS

Theory and practice of measurement and evaluation in the secondary school. This course will examine standardized and teacher-devised instruments; individual and group measurement of achievement and intelligence; introductory statistics as they pertain to tests and measurements; marking and grading. This course will also include laboratory exercises in achievement test construction and statistical interpretation of scores.

SOCIOLOGY

Joan Ecklein, Ph.D., Chairman

Sociology as a major is open to all B.A. and B.S. degree candidates. Majors in sociology must complete 30 semester hours in sociology, including the required courses: SO201, SO202 and SO204.

A minor in sociology, available for all degree candidates, consists of 21 semester hours in sociology/anthropology, including the required courses: SO201, SO202 and SO204.

All courses with the exception of SO308, SO319 and SO402 will require the prerequisite SO201. The instructor may waive the prerequisite.

All courses meet three hours each week for three semester hours.

SO201 INTRODUCTION TO SOCIOLOGY

An introduction to the field of sociology. A survey of concepts: socialization; primary groups; social stratification, population, ecology and social change in American society, and the application of these concepts to basic institutions; the family, education and religion. A prerequisite to advanced courses in sociology.

SO202 HISTORY OF SOCIOLOGICAL THEORY

Sociological theory from the eighteenth century on, emphasizing European theorists such as Durkheim, Spencer, Weber and Marx; and American theorists: Veblen, Mannheim, Cooley, Merton and Parsons.

SO203 SOCIAL STRATIFICATION

This course will focus on the analysis of the contemporary class system in the United States. We will examine different theories and types of research in social class and stratification as well as the position of the upper class, the middle class, the working class, etc.

SO204 SOCIOLOGICAL METHODOLOGY

An intensive study of research design, data collection and analysis, and related topics in social research.

SO205 INTRODUCTION TO SOCIAL WORK

The occupation of social work as a socially sanctioned profession will be the major focus of this course. The course will focus on the introduction of the student to the different roles played by the social worker, the values and activities of social work as a profession, the settings in which social work is practiced, and the methods employed by the social worker in providing services.

SO206 SOCIAL WELFARE

The development of social welfare as an institution with an emphasis on its relationship to changing technology, possible solutions to poverty, and the emergence of social work as a profession.

SO207 SOCIAL WELFARE AGENCIES

Prerequisite: SO205. Various kinds of social welfare services that have been established in response to distinctive, recurrent social needs affecting a significant segment of the population will be reviewed. An analysis of the organization and structure of social agencies will involve the application of theoretical sociological learning regarding complex organizations and operation of bureaucracies.

SO302 CRIME AND DELINQUENCY

Description and analysis of causes, contexts, effects, and correctional programs for "delinquents" and "criminals." Attempts to answer the question: Who is the criminal?

SO303 RACE RELATIONS

A survey of the definitions and concepts essential for a study of human relations involved within and between racial groups. Emphases are placed on the current American black/white racial problems with implications analyzed for minority groups in America other than the black population.

SO304 CULTURE AND PERSONALITY

The impact of a society's culture upon the personality of its members.

SO305 THE FAMILY

An examination of the social structure and functions of the family in the United States and other cultures. Topics include analyses of the relationship between the family and the social stratification system; sex roles in the family; mate selection and marriage; childrearing patterns; family problems (divorce, alcoholism, etc.); and the changing role of the American family.

SO306 THE COMMUNITY

Prerequisites: SO201; SO307 or SO402. The community in America. The development and trends of modern communities; ecology, social processes, the institutions and social structure of urban, suburban, rural and metropolitan regions. Community planning and urban redevelopment.

SO307 URBAN SOCIOLOGY

An examination of the city, past and present; urban living, demographic and survey data applied to the city; and urban problems.

SO308 SOCIOLOGY OF EDUCATION

An examination of the social functions of schooling in American society. Topics include political power in public education; schooling and the social stratification system; schools as an agency of socialization and social control; and the social problems of the teaching occupation.

SO309 SOCIOLOGY OF OCCUPATIONS AND PROFESSIONS

The historical meaning and function of work in an industrial society. The analysis of the labor force concept, of specialization, and professionalization.

SO310 SOCIOLOGY OF BUREAUCRATIC ORGANIZATIONS

Theories of bureaucracy as they apply to such formal organizations as the government, the economy, religion, the military, and education.

SO311 POLITICAL SOCIOLOGY

The study of political behavior; the impact of social forces on voting behavior; an analysis of pressure groups, and responses to blocking of legitimate political channels.

SO312 MEDICAL SOCIOLOGY

Man's social activities—economic, residential, familial—in relation to his health. Medical personnel and patients. The role of the sick. Medical theories as practiced in different societies. Hospitals as social organizations.

SO318 SOCIAL MOVEMENTS

The analysis of selected social movements; labor movement, women's liberation, Black liberation, student movement, communist movement, cooperative movement. We will study the social and historical conditions leading to each social movement, the strategy and tactics they adopted, the repression they faced, the internal problems they encountered and their achievements in gaining better working and living conditions.

SO319 SOCIOLOGY OF SEX ROLES

An examination of the sex roles traditionally assigned men and women in America and other cultures and an analysis of the economic, political, psychological and other factors which have determined these roles. Special attention will be paid to sex role behavior and attitudes in America today, particularly in the areas of employment, division of labor in the family, and the self-image of the sexes.

SO323 SOCIAL CHANGE

Analysis of the processes of change in society and specific theories of change. Innovation, resistance to change, and ideological and technological factors will be examined.

SO401 SOCIAL INTERACTION

Prerequisite: any 9 credits in sociology. The course is designed to give the student experience in using sociological concepts to increase his understanding of social interaction in small-group situations.

SO402 SOCIAL PROBLEMS

Major contemporary social problems will be examined: inequality, racism, corporate power, militarization, schools and the police.

SO404 SOCIOLOGY OF DEVIANCE AND SOCIAL CONTROL

Focus is on the formal and informal responses to deviant modes of behavior ranging from law breaking to simple non-conformity. Institutions (prisons, hospitals, half-way houses, free clinics, courts) as well as the agents of social control (schoolteachers, police, psychiatrists, lawyers, doctors, guards, peers) will be discussed in relation to punishing, regulating, and changing people's behavior.

SO405 SOCIOLOGY OF ATTITUDES AND EMOTIONS

The social development of ethics, ideology, beliefs, concepts of legitimacy and the emotions that are expressed in social situations.

SO490 SPECIAL TOPICS IN SOCIOLOGY

For honors candidates. Independent research on a topic determined by the student in consultation with his honors advisor. All faculty available.

ANTHROPOLOGY

Joan Ecklein, Ph.D., Chairman

A minor in anthropology is available for all interested students. A minor is comprised of 18 semester hours of which only AN201 is required.

All courses meet three hours each week for three semester hours.

AN201 CULTURAL ANTHROPOLOGY

The student is introduced to topics such as: the nature and content of culture; culture in time; aspects of culture including the family, kin, religion; cultural values and culture changes.

AN202 PHYSICAL ANTHROPOLOGY

An introduction to the field. Subject matter includes primate and human anatomy; fossil man and his evolution; and problems of racial classification and racism.

AN203 INTRODUCTORY ARCHAEOLOGY

A review of the cultures of prehistoric man in Europe, Asia, Africa, and the Americas. Emphasis is placed on the development of cultures through time.

AN210 INDIANS OF NORTH AMERICA

Prehistory and the diversity of cultures from the Eskimo to the Aztecs. The impact of conquest and present day conditions as a reflection of that conquest.

AN211 INDIANS OF SOUTH AMERICA

Prehistory and the diversity of cultures from the Siriono to the Incas. The impact of conquest on the indigenous cultures.

AN212 CULTURES OF BLACK AFRICA

Peoples, prehistory and cultures of Africa; the spectrum of cultures ranging from Bushmen hunters to the Ashanti Federation.

AN300 RESEARCH METHODS IN ANTHROPOLOGY

The application of anthropological techniques with an emphasis on participant observation. The planning and carrying out of a small scale research proposal.

AN302 COMPARATIVE SOCIAL STRUCTURES

Prerequisite: AN201. A comparison of social structures of selected non-western societies. Stress is placed on the meanings of society, structures and systems, and methods of comparison.

AN303 PRIMITIVE RELIGIONS

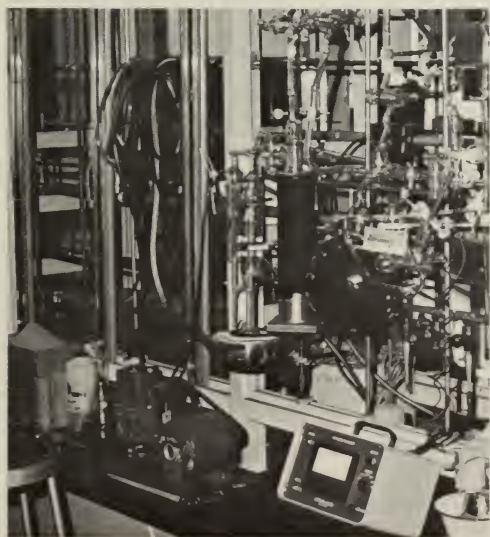
Prerequisite: AN201. The relationship between religious institutions and society on a cross cultural basis. The function of magic and the relationship between religion and the formation of social movements.

AN306 HISTORY OF ANTHROPOLOGICAL THEORY

Prerequisites: AN201, AN302. The growth and development of anthropological theory from Maine, Bachofen and Morgan to Radcliffe-Brown and Malinowski.

AN490 HONORS IN ANTHROPOLOGY

For honors candidates. Independent research on a topic determined by the student in consultation with his honors advisor. All faculty available.



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